SONY

4-247-936-**12**(1)

Super Audio CD/ DVD RECEIVER

Operating instructions US

Mode d'emploi FR

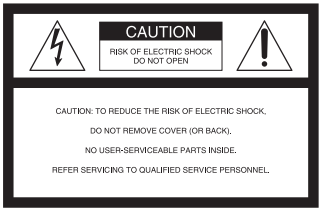
AVD-C700ES

©2003 Sony Corporation

WARNING

Caution – The use of optical instruments with this product will increase eye hazard.

For the customers in the U.S.A
To prevent fire or shock hazard, do not expose the unit to rain or moisture.


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Owner’s Record

The model and serial numbers are located at the rear of the unit. Record the serial number in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. AVD-C700ES
Serial No._____

WARNING

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help.

CAUTION

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Note to CATV system installer:

This reminder is provided to call the CATV system installer’s attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

For the customers in Canada

CAUTION

TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

ENERGY STAR® is a U.S. registered mark.
As an ENERGY STAR® partner, Sony Corporation has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

Precautions

Safety

- If anything falls into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.
- The unit is not disconnected from the mains as long as it is connected to the mains outlet, even if the unit itself has been turned off.
- Unplug the unit from the wall outlet if you do not intend to use it for an extended period of time. To disconnect the cord, pull it out by the plug, never by the cord.

Installing

- Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.
- Allow adequate air circulation to prevent internal heat buildup.
- Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation slots.
- Do not install the unit near heat sources such as radiators, or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration, or shock.
- Do not install the unit in an inclined position. It is designed to be operated in a horizontal position only.
- Keep the unit and discs away from equipment with strong magnets, such as microwave ovens, or large loudspeakers.
- Do not place heavy objects on the unit.
- If the unit is brought directly from a cold to a warm location, moisture may condense inside the receiver and cause damage to the lenses. When you first install the unit, or when you move it from a cold to a warm location, wait for about 30 minutes before operating the unit.

Welcome!

Thank you for purchasing this Sony Super Audio CD/DVD RECEIVER. Before operating this system, please read this manual thoroughly and retain it for future reference.

Precautions

On safety

Should any solid object or liquid fall into the cabinet, unplug the receiver and have it checked by qualified personnel before operating it any further.

On placement

- Place the receiver in a location with adequate ventilation to prevent heat build-up in the receiver.
- At high volume, over long periods of time, the cabinet becomes hot to the touch. This is not a malfunction. However, touching the cabinet should be avoided. Do not place the unit in a confined space where ventilation is poor as this may cause overheating.
- Do not block the ventilation slots by putting anything on the receiver. The receiver is equipped with a high power amplifier. If the ventilation slots on the top surface are blocked, the unit can overheat and malfunction.
- Do not place the receiver on a soft surface such as a rug that might block the ventilation holes on the bottom.
- Do not place the receiver in a location near heat sources, or in a place subject to direct sunlight, excessive dust, or mechanical shock.

On operation

- If the receiver is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lenses inside the receiver. Should this occur, the receiver may not operate properly. In this case, remove the disc and leave the receiver turned on for about half an hour until the moisture evaporates.
- When you move the receiver, take out any disc. If you don't, the disc may be damaged.
- For power saving purposes, the receiver can be completely turned off by the POWER button on the main unit. Though the LED remains lit for a while, the receiver is completely off.

continued

On adjusting volume

Do not turn up the volume while listening to a section with very low level inputs or no audio signals. If you do, the speakers may be damaged when a peak level section is played.

On cleaning

Clean the cabinet, panel, and controls with a soft cloth slightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzine.
If you have any questions or problems concerning your receiver, please consult your nearest Sony dealer.

On cleaning discs

Do not use a commercially available CD/DVD cleaning disc. It may cause a malfunction.

On your TV's color

If the speakers should cause the TV screen to have color irregularity, turn off the TV at once then turn it on after 15 to 30 minutes. If color irregularity should persist, place the speakers farther away from the set.

The nameplate is located on the rear of the unit.

IMPORTANT NOTICE
Caution: This receiver is capable of holding a still video image or on-screen display image on your television screen indefinitely. If you leave the still video image or on-screen display image displayed on your TV for an extended period of time you risk permanent damage to your television screen. Projection televisions are especially susceptible to this.

On moving the receiver

When you carry the receiver, use the following procedure to protect the inner mechanism.
Remove all discs. "NO DISC" is displayed in the front panel display. Press and hold ■ and DISC 4 for about 5 seconds on the receiver. After "MECHA LOCK" is displayed on the front panel display, turn off the receiver and remove the AC power cord from a wall outlet.

Table of Contents

Welcome! 3
Precautions 3
About this Manual 7
This receiver Can Play the Following Discs 7
Terms for discs 7
Notes about Discs 9
Guide to the Control Menu Display 11

Getting Started

Unpacking 13
Inserting Batteries into the Remote 13
Step 1: Speaker System Hookup 14
Step 2: Antenna Hookups 17
Step 3: TV and Video Component Hookups 19
Step 4: Connecting the AC Power Cord (mains lead) 21
Speaker Setup 22

Playing Discs

Playing Discs 23
Replacing Discs While Playing a Disc 25
Resuming Playback from the Point Where You Stopped the Disc ..... 26 (Resume Play)
Using the DVD's Menu 27
Playing VIDEO CDs with PBC Functions (Ver. 2.0) ..... 27 (PBC Playback)
Playing an MP3 Audio Track 28
Playing JPEG Image Files 30
Selecting the Play Mode ..... 32 (All Discs, One Disc, or Album)
Creating Your Own Program ..... 33 (Program Play)
Playing in Random Order ..... 35 (Shuffle Play)
Playing Repeatedly ..... 36 (Repeat Play)
Searching for a Particular Point on a Disc ..... 37 (Scan, Slow-motion Play)
Searching for a Title/Chapter/Track/Index/Album/File 38
Viewing Disc Information 40

Sound Adjustments

Changing the Sound 45
Enjoying Surround Sound 47
Selecting the Surround Back Decoding Mode 51
Selecting the Decode Priority 52
Changing the Speaker Impedance Value 53

Using Various Additional Functions

Changing the Angles 54
Displaying Subtitles 55
Adjusting the Playback Picture ..... 56 (PICTURE MODE)
Locking Discs ..... 57 (CUSTOM PARENTAL CONTROL, PARENTAL CONTROL)

Other Operations

Using the Remote 62
Controlling Other Units with the Supplied Remote 65
Using Other Units 68
Enjoying the Radio 69
Changing the Brightness of the Front Panel 72

Settings and Adjustments

Using the Setup Display 73
Setting the Display or Sound Track Language ..... 74 (LANGUAGE SETUP)
Settings for the Display ..... 75 (SCREEN SETUP)
Custom Settings ..... 76 (CUSTOM SETUP)
Settings for the Speakers ..... 77 (SPEAKER SETUP)

continued

Additional Information

Troubleshooting 81
Specifications 84
Glossary 85
Index to Parts and Controls 89
Language Code List 93
DVD Setup Menu List 94
Index 96

About this Manual

- The instructions in this manual describe the controls on the remote. You can also use the controls on the receiver if they have the same or similar names as those on the remote.
- The following symbols are used in this manual.

Symbol	Meaning
DVD	Functions available for DVD VIDEOs and DVD-Rs/DVD-RWs in video mode or DVD+Rs/ DVD+RWs in video mode
VIDEO CD	Functions available in VIDEO CD mode
CD	Functions available in CD mode
SA-CD CD	Functions available in Super Audio CD and Audio CD mode
MP3	Functions available for MP3* audio tracks
JPEG	Functions available for JPEG files

* MP3 (MPEG1 Audio Layer 3) is a standard format defined by ISO/MPEG which compresses audio data.

This receiver Can Play the Following Discs

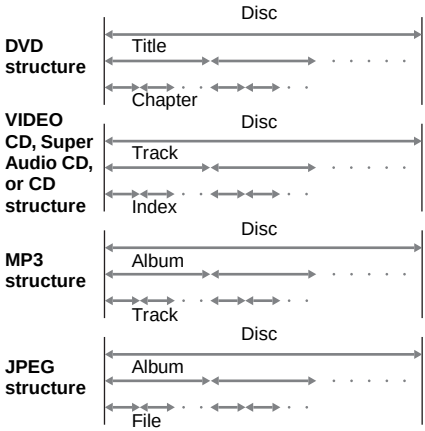
Format of discs	Disc logo
DVD VIDEO	DVD VIDEO
Super Audio CD	SUPER AUDIO CD
VIDEO CD	COMPACT disc DIGITAL VIDEO
Audio CD	COMPACT disc DIGITAL AUDIO TEXT
CD-R/CD-RW (audio data) (MP3 files) (JPEG files)	COMPACT disc DIGITAL AUDIO Recordable / COMPACT disc DIGITAL AUDIO ReWritable / COMPACT disc Recordable / COMPACT disc ReWritable

The “DVD VIDEO” logo is a trademark.

Terms for discs

- **Title**
  The longest section of a picture or music feature on a DVD, movie, etc., in video software, or the entire album in audio software.
- **Chapter**
  Section of a picture or a music piece that is smaller than titles. A title is composed of several chapters. Depending on the disc, no chapters may be recorded.
- **Album**
  Section of a music piece or an image on a data CD containing MP3 audio tracks or JPEG files.
- **Track**
  Section of a picture or a music piece on a VIDEO CD, Super Audio CD, CD, or MP3.
- **Index (Super Audio CD, CD) / Video Index (VIDEO CD)**
  A number that divides a track into sections to easily locate the point you want on a VIDEO CD, Super Audio CD or CD. Depending on the disc, no indexes may be recorded.
- **Scene**
  On a VIDEO CD with PBC functions (page 27), the menu screens, moving pictures and still pictures are divided into sections called “scenes.”
- **File**
  Section of a picture on a data CD containing JPEG image files.

continued



Note on PBC (Playback Control) (VIDEO CDs)

This receiver conforms to Ver. 1.1 and Ver. 2.0 of VIDEO CD standards. You can enjoy two kinds of playback depending on the disc type.

Disc type	You can
VIDEO CDs without PBC functions (Ver. 1.1 discs)	Enjoy video playback (moving pictures) as well as music.
VIDEO CDs with PBC functions (Ver. 2.0 discs)	Play interactive software using menu screens displayed on the TV screen (PBC Playback), in addition to the video playback functions of Ver. 1.1 discs. Moreover, you can play high-resolution still pictures, if they are included on the disc.

About Multi Session CD

- This receiver can play Multi Session CDs when an MP3 audio track is contained in the first session. Any subsequent MP3 audio tracks recorded in later sessions can also be played back.
- This receiver can play Multi Session CDs when a JPEG image file is contained in the first session. Any subsequent JPEG image files recorded in later sessions can also be played back.
- If audio tracks and images in music CD format or video CD format are recorded in the first session, only the first session will be played back.

Region code

Your receiver has a region code printed on the back of the unit and will only play DVDs labelled with the same region code.

DVDs labelled 🌐 will also play on this receiver.
If you try to play any other DVD, the message “Playback prohibited by area limitations.” will appear on the TV screen. Depending on the DVD, no region code indication may be given even though playing the DVD is prohibited by area restrictions.

Examples of discs that the receiver cannot play

The receiver cannot play the following discs:

- CD-ROMs (except for extension “.MP3,” “.JPG,” or “.JPEG”)
- CD-Rs/CD-RWs other than those recorded in the following formats:
  - music CD format
  - video CD format
  - MP3/JPEG format that conforms to ISO9660* Level 1/Level 2, or its extended format, Joliet
- Data part of CD-Extras
- DVD-ROMs
- DVD Audio discs
- DVD-RAMs
- DVD-RWs in VR (Video Recording) mode
- DVD+RWs in VR (Video Recording) mode
- Progressive JPEG file

* A logical format of files and folders on CD-ROMs, defined by ISO (International Standard Organization)

Do not load the following discs:

- A DVD with a different region code (page 8, 87).
- A disc that is neither standard nor circular (e.g., card, heart, or star shape).
- A disc with paper or stickers on it.
- A disc that has adhesive or cellophane tape still left on it.

Notes about CD-R/CD-RW/DVD-R/DVD-RW (Video mode)/DVD+R/DVD+RW(Video mode)

In some cases, CD-R/CD-RW/DVD-R/DVD-RW (Video mode)/DVD+R/DVD+RW(Video mode) cannot be played on this player due to the recording quality or physical condition of the disc, or the characteristics of the recording device and authoring software.
The disc will not play if it has not been correctly finalized. For more information, see the operating instructions for the recording device.
Note that discs created in the Packet Write format cannot be played.

Music discs encoded with copyright protection technologies

This product is designed to play back discs that conform to the Compact Disc (CD) standard.
Recently, various music discs encoded with copyright protection technologies are marketed by some record companies. Please be aware that among those discs, there are some that do not conform to the CD standard and may not be playable by this product.

Note on playback operations of DVDs and VIDEO CDs

Some playback operations of DVDs and VIDEO CDs may be intentionally set by software producers. Since this receiver plays DVDs and VIDEO CDs according to the disc contents the software producers designed, some playback features may not be available. Also, refer to the instructions supplied with the DVDs or VIDEO CDs.

Copyrights

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

This system incorporates with Dolby* Digital and Dolby Pro Logic (II) adaptive matrix surround decoder and the DTS** Digital Surround System.

* Manufactured under license from Dolby Laboratories.
"Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.

** Manufactured under license from Digital Theater Systems, Inc.
"DTS","DTS-ES" and "Neo:6" are trademarks of Digital Theater Systems, Inc.

Notes about Discs

On handling discs

- To keep the disc clean, handle the disc by its edge. Do not touch the surface.
- Do not stick paper or tape on the disc.

- Do not expose the disc to direct sunlight or heat sources such as hot air ducts, or leave it in a car parked in direct sunlight as the temperature may rise considerably inside the car.
- After playing, store the disc in its case.

On cleaning

- Before playing, clean the disc with a cleaning cloth.
  Wipe the disc from the center out.

continued

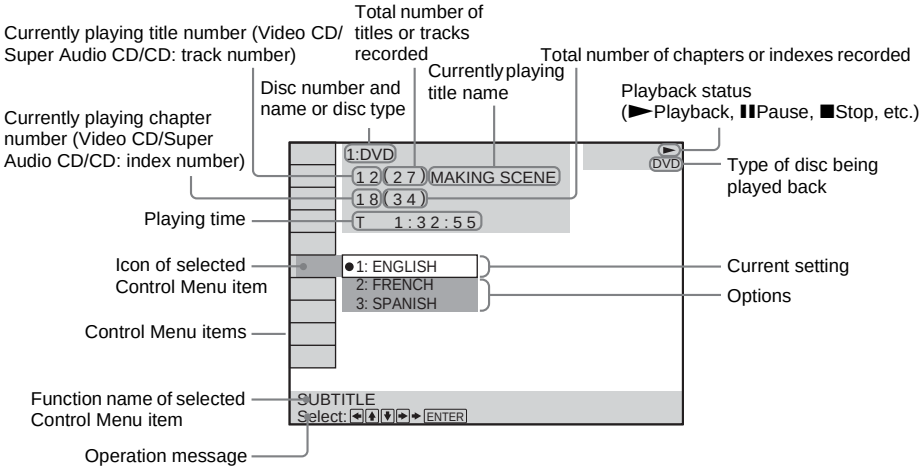
- Do not use solvents such as benzine, thinner, commercially available cleaners, or anti-static spray intended for vinyl LPs.

This receiver can only play back a standard circular disc. Using neither standard nor circular discs (e.g., card, heart, or star shape) may cause a malfunction.

Do not use a disc that has a commercially available accessory attached, such as a label or ring.

Guide to the Control Menu Display

Use the Control Menu to select a function that you would like to use. The Control Menu display appears when the DVD DISPLAY button is pressed. For details, refer to the page in parentheses.


Currently playing title number (Video CD/ Super Audio CD/CD: track number)
Total number of titles or tracks recorded
Total number of chapters or indexes recorded
Disc number and name or disc type
Currently playing title name
Playback status (►Playback, ❚❚Pause, ■Stop, etc.)
Currently playing chapter number (Video CD/Super Audio CD/CD: index number)
Type of disc being played back
Playing time
Icon of selected Control Menu item
Current setting
Options
Control Menu items
Function name of selected Control Menu item
Operation message
1:DVD
1 2 (2 7) MAKING SCENE
1 8 (3 4)
T 1 : 3 2 : 5 5
DVD
●1: ENGLISH
2: FRENCH
3: SPANISH
SUBTITLE
Select: ENTER

List of Control Menu Items

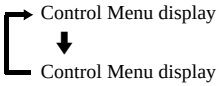
DISC	Displays the disc number, the disc name, or the disc type inserted into the receiver.
TITLE (DVD only) (page 38)/ SCENE (only VIDEO CD in PBC playback) / TRACK (VIDEO CD only) (page 38)	Selects the title (DVD), or the track (VIDEO CD) to be played. Displays the scene (VIDEO CD in PBC playback).
CHAPTER (DVD only) (page 39)/ INDEX (VIDEO CD only) (page 39)	Selects the chapter (DVD) or the index (VIDEO CD) to be played.
ALBUM (MP3 only) (page 29, 38)	Selects the album (MP3) to be played.
TRACK (Super Audio CD/CD/MP3 only) (page 29, 38)	Selects the track (Super Audio CD/CD/MP3) to be played.
INDEX (Super Audio CD/CD only) (page 39)	Displays the index and selects the index (Super Audio CD) to be played.
TIME (page 39)	Checks the elapsed time and the remaining playback time. Inputs the time code for picture and music searching.
AUDIO (DVD/VIDEO CD/Super Audio CD/CD/MP3 only) (page 45)	Changes the audio setting.
SUBTITLE (DVD only) (page 55)	Displays the subtitles. Changes the subtitle language.

continued

ALBUM (JPEG only) (page 30, 38)	Selects the album (JPEG) to be played.
FILE (JPEG only) (page 30, 38)	Selects the file (JPEG) to be played.
DATE (JPEG only) (page 44)	Displays the date information.
ANGLE (DVD only) (page 54)	Changes the angle.
PLAYMODE (page 32, 35)	Selects the play mode.
REPEAT (page 36)	Plays the entire disc (all titles/all tracks), one title/chapter/ track/album, or contents of program repeatedly.
PICTURE MODE (DVD/ VIDEO CD/JPEG only)(page 56)	Adjusts the video signal from the receiver in various ways. Selects the setting that suits the program you are watching.
CUSTOM PARENTAL CONTROL (page 57)	Sets the disc to prohibit playing.

Tips

• Each time you press DVD DISPLAY, the Control Menu display changes as follows:



The Control Menu items vary, depending on the disc.

• The Control Menu icon indicator lights up in green → unless you set the REPEAT setting to "OFF."

• The "ANGLE" indicator lights up in green only when multiple angles are recorded on the disc.

• The "PICTURE MODE" indicator lights up in green if "STANDARD" is not selected.

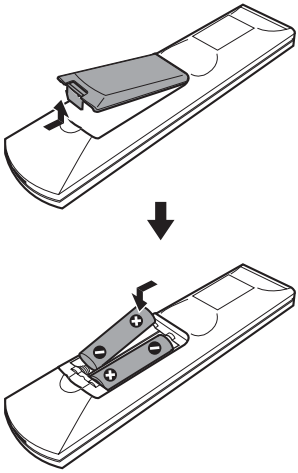
Unpacking

Check that you have the following items:

- AM loop antenna (1)
- FM wire antenna (1)
- S Video cord (1)
- Remote Commander (remote) RM-CL700M (1)
- R6 (size AA) batteries (2)
- Operating instructions (1)

Inserting Batteries into the Remote

You can control the receiver using the supplied remote. Insert two R6 (size AA) batteries by matching the ⊕ and ⊖ ends on the batteries to the markings inside the compartment. When using the remote, point it at the remote sensor ▣ on the receiver.
For details of remote operation, see “Using the Remote” on page 62.



Notes

- Do not leave the remote in an extremely hot or humid place.
- Do not use a new battery with an old one.
- Do not drop any foreign object into the remote casing, particularly when replacing the batteries.
- Do not expose the remote sensor to direct light from the sun or lighting apparatus. Doing so may cause a malfunction.
- If you do not use the remote for an extended period of time, remove the batteries to avoid possible damage from battery leakage and corrosion.
- When you operate the receiver, select DVD or TUNER in the remote’s display. For details, refer to “Using the remote” (page 62).

Step 1: Speaker System Hookup

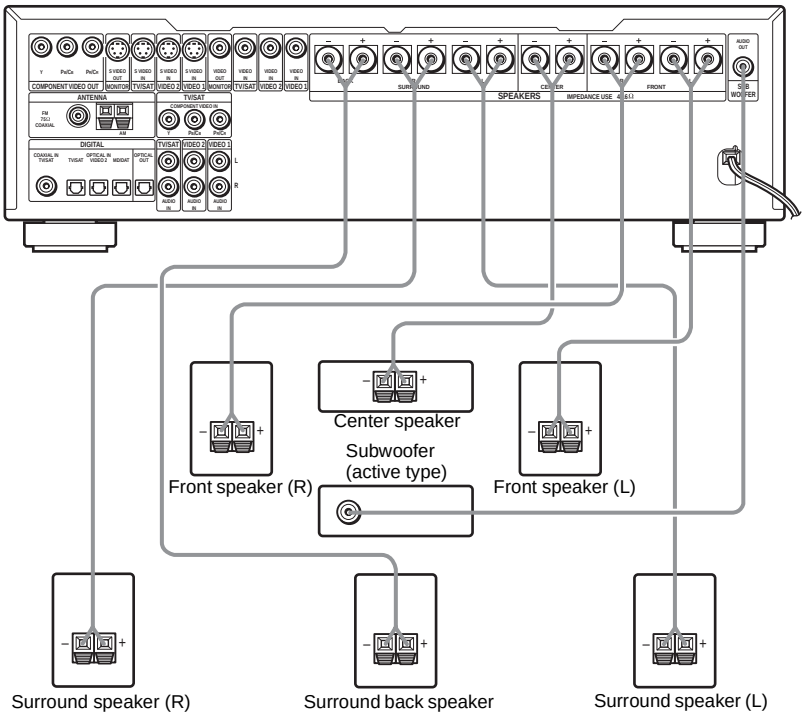
You can enjoy surround sound by connecting 6 speakers (front L/R speakers, center speaker, surround L/R speakers, surround back speaker) and active subwoofer to the receiver. If you do not connect 6 speakers and active subwoofer to the receiver, the receiver offers the means to optimize the signal depending on the number of connected speakers. When you connect 2 speakers to the receiver, connect the speakers to the SPEAKERS FRONT L/R jacks.

Notes

- Be sure to match the speaker cords to their appropriate terminal: ⊕ to ⊕, ⊖ to ⊖, L to L, and R to R jack.
- Use high performance speakers.
- Use suitable sized speakers of similar performance for the front, center, surround, and surround back speakers.
- To obtain the best possible surround sound, specify the speaker parameters (size, distance, level, etc.) on page 77.

Terminals for connecting the speakers

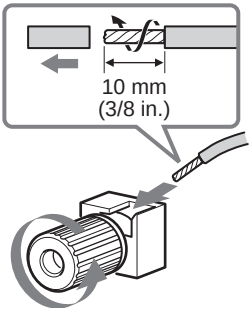
Connect	To the
Front speakers	SPEAKERS FRONT L and R terminals
Surround speakers	SPEAKERS SURROUND L and R terminals
Surround back speaker	SPEAKERS SURROUND BACK terminal
Center speaker	SPEAKERS CENTER terminal
Subwoofer	SUBWOOFER AUDIO OUT jack

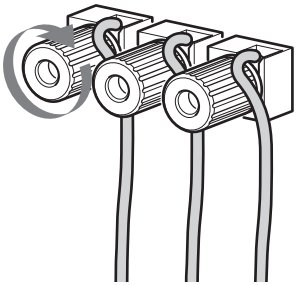


continued

Note for connecting the speaker cords to the receiver

Remove about 10 mm ($^3/_8$ inch) of insulation at the end of the cord, then twist the exposed wires. Connect the stripped ends of the cords to the terminals, taking care to avoid contact between the cords. Make sure the cords are firmly connected to the speaker and receiver terminals.



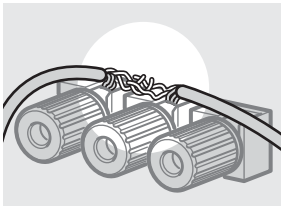


To avoid short-circuiting the speakers

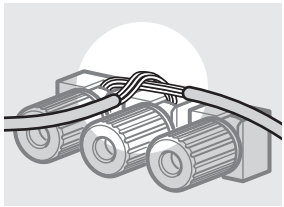
Short-circuiting of the speakers may damage the receiver. To prevent this, be sure to follow these precautions when connecting the speakers. Make sure the bare wire of each speaker cord does not touch another speaker terminal or the bare wire of another speaker cord.

Examples of poor speaker cord connection

Stripped speaker cord is touching another speaker terminal.



Stripped cords are touching each other due to excessive removal of insulation.



After connecting all the components, speakers, and AC power cord (mains lead), output a test tone to check that all the speakers are connected correctly. For details on outputting a test tone, see page 79. If no sound is heard from a speaker while outputting a test tone, or a test tone is output from a speaker other than the one currently displayed in the front panel display, the speaker may be short-circuited. If this happens, check the speaker connection again.

Notes

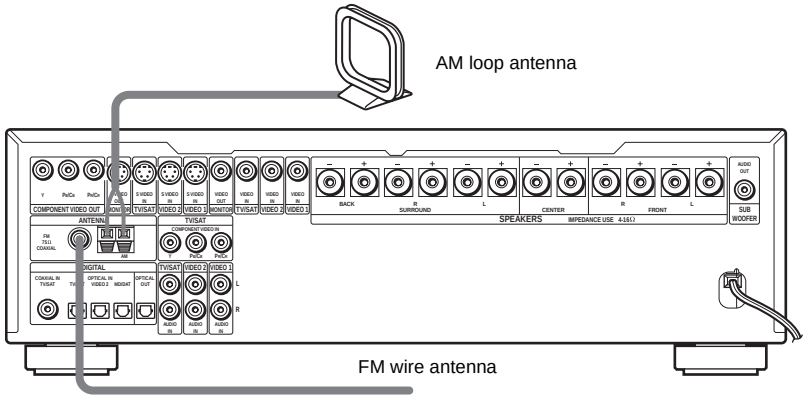
- Be sure to match the speaker cord to the appropriate terminal on the components: ⊕ to ⊕, and ⊖ to ⊖. If the cords are reversed, the sound will be distorted and will lack bass.
- If you use front speakers with low maximum input rating, adjust the volume carefully to avoid excessive output on the speakers.
- When connecting the stripped ends of the speaker cords, make sure the ends do not touch each other or neighbouring terminals.

Step 2: Antenna Hookups

Connect the supplied AM/FM antennas for listening to the radio.

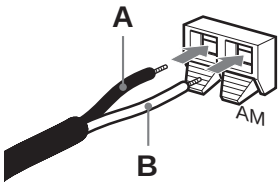
Terminals for connecting the antennas

Connect the	To the
AM loop antenna	AM terminals
FM wire antenna	FM 75Ω COAXIAL jack



Notes

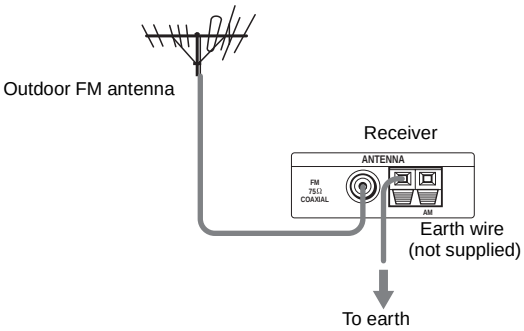
- To prevent noise pickup, keep the AM loop antenna away from the receiver and other components.
- Be sure to fully extend the FM wire antenna.
- After connecting the FM wire antenna, keep it as horizontal as possible.
- When you connect the supplied AM loop antenna, the cord (A) and the cord (B) can be connected in either terminal.



continued

If you have poor FM reception

Use a 75-ohms coaxial cable (not supplied) to connect the receiver to an outdoor FM antenna as shown below.



Note

If you connect the receiver to an outdoor antenna, ground it to protect against lightning. To prevent a gas explosion, do not connect the earth wire to a gas pipe.

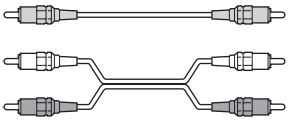
Step 3: TV and Video Component Hookups

Required cords

S Video cord for connecting a TV monitor

Audio/Video cords (not supplied)

When connecting a cord, be sure to match the color-coded pins to the appropriate jacks on the components.



Jacks for connecting video components

Connect a	To the
TV monitor	MONITOR (S VIDEO OUT or VIDEO OUT) jack
VCR	VIDEO 1 or VIDEO 2 (S VIDEO IN or VIDEO IN/AUDIO L/R IN) jacks
Digital satellite receiver	TV/SAT (COMPONENT VIDEO IN, S VIDEO IN, or VIDEO IN/AUDIO L/R IN) jacks

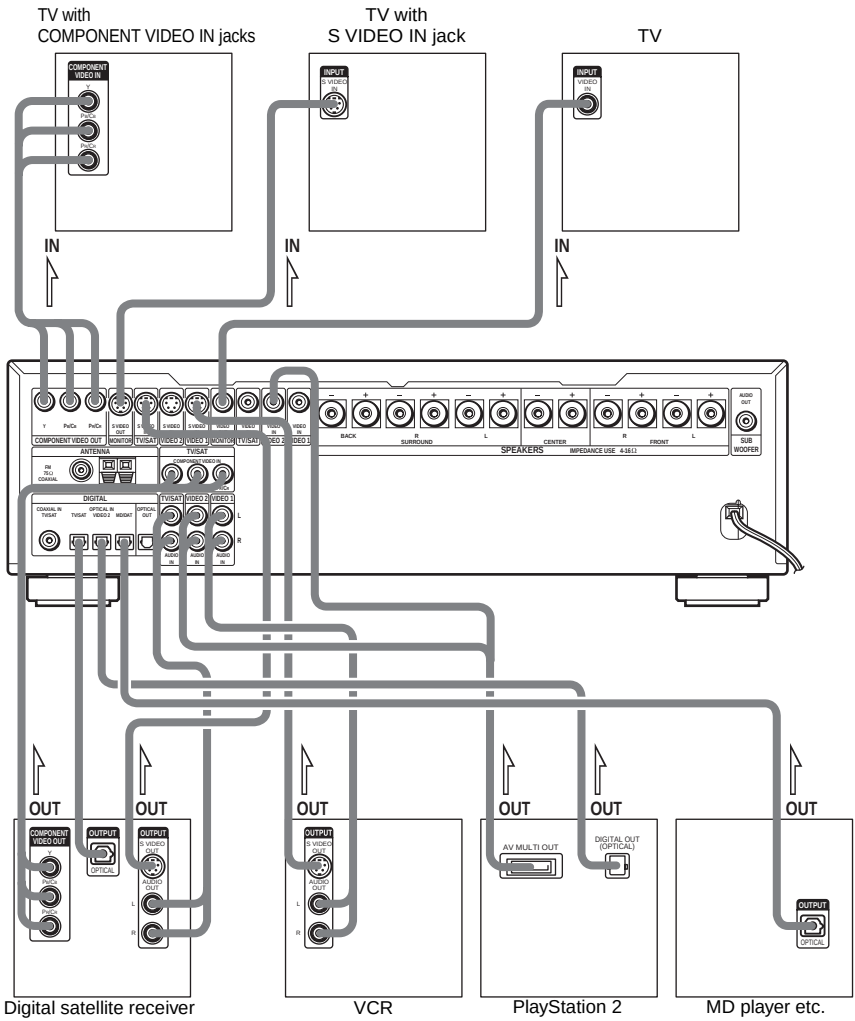
Note

When only the receiver is set to “DVD” mode or the signal is input to the TV/SAT (COMPONENT VIDEO IN) jacks, the signal is output from the COMPONENT VIDEO OUT jacks.

Tip

When using the COMPONENT VIDEO OUT jacks (Y, P_B/C_B, P_R/C_R) instead of the S Video jacks or the Video jacks, your TV monitor must also be connected via COMPONENT VIDEO OUT jacks (Y, P_B/C_B, P_R/C_R). If your TV accepts progressive format signals, you must use this connection and set “COMPONENT OUT” to “PROGRESSIVE” in “SCREEN SETUP” (page 76).

continued



If you connect a digital satellite receiver with an OPTICAL OUT jack or a COAXIAL OUT jack

The digital satellite receiver can be connected to the TV/SAT (OPTICAL or COAXIAL) INPUT jack instead of the AUDIO IN L/R jacks of the receiver.
The receiver can accept both the digital and analogue signals. Digital signals have priority over analogue signals. If the digital signal ceases, the analogue signal will be processed after 2 seconds.

If you connect a digital satellite receiver without an OPTICAL OUT jack

Connect the digital satellite receiver to the S VIDEO IN or VIDEO IN and AUDIO IN L/R jacks only of the receiver.

To listen to the TV or game machine (ex: PlayStation 2) sound by using the receiver

Connect the audio output jacks of the TV or game machine to the VIDEO 2 (AUDIO L/R IN or OPTICAL IN) jacks of the receiver.

Step 4: Connecting the AC Power Cord (mains lead)

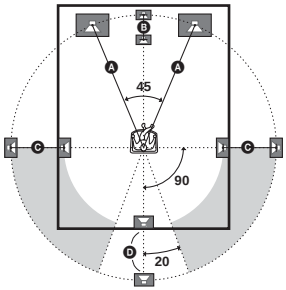
Before connecting the AC power cord (mains lead) of this receiver to a wall outlet (mains), connect the speakers to the receiver (see page 14).

Speaker Setup

For the best possible surround sound, all the speakers other than the subwoofer should be the same distance from the listening position (A). However, this receiver allows you to place the center speaker up to 1.5 metres a) closer (B) and the surround and the surround back speakers up to 4.5 metres b) closer (C, D) to the listening position.
The front speakers can be placed from 0.9 to 6.9 metres c) (A) from the listening position.

Canadian numerical equivalents:
a) 5 feet (1.5 metres)
b) 15 feet (4.5 metres)
c) 3 to 23 feet (0.9 to 6.9 metres)

Place speakers as illustrated below



Note

Do not place the center, surround and the surround back speakers farther away from the listening position than the front speakers.

When color irregularity occurs on the TV

If speakers are installed too close, color irregularity may occur on the screen. If color irregularity occurs, turn off the TV set once, then turn it on after 15 to 30 minutes. If color irregularity occurs again, place the subwoofer farther away from the TV set. If color irregularity still occurs after performing the above, make sure that no magnetic object is placed near the subwoofer. Color irregularity may occur as a result of interaction between the subwoofer and the magnetic object.
Examples of possible sources of magnetic interference include: magnetic latches on a TV stand, etc., healthcare devices, toys, etc.

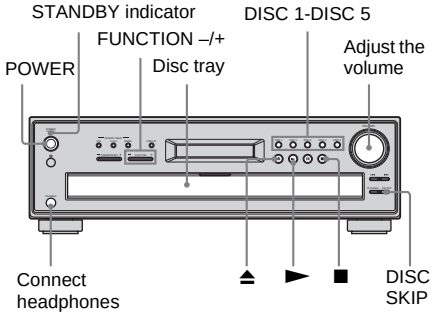
Specifying the speaker parameters

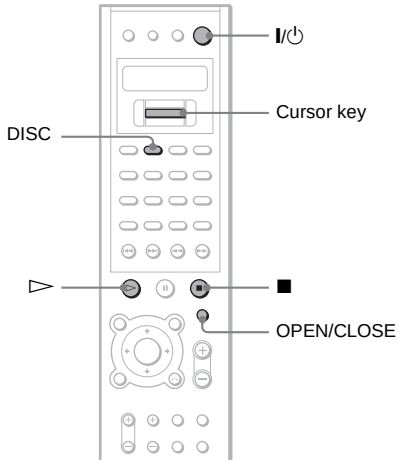
To obtain the best possible surround sound, first specify the size and the distance of the speakers from your listening position, then set the level and balance. Use the test tone to adjust the speaker level and balance to the same level.
Select “SPEAKER SETUP” in the setup display. For details, see “Settings for the Speakers” (page 77).
Also change the impedance value depending on your speaker’s impedance. For details, see “Changing the Speaker Impedance Value” (page 53).

Playing Discs

DVD VIDEO CD SA-CD CD MP3 JPEG

Depending on the DVD or VIDEO CD, some operations may be different or restricted. Refer to the operation details supplied with your disc.





1 **Turn on your TV.**

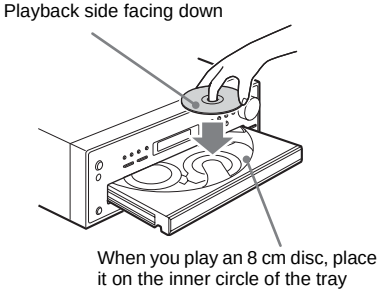
2 **Switch the input selector on the TV to this receiver.**

3 **Press POWER on the receiver.**

The receiver enters standby mode and the STANDBY indicator lights up in red.

4 **Press ⏏ on the receiver or OPEN/CLOSE on the remote, and place a disc with the label side up on the disc tray.**

The receiver automatically turns on and the STANDBY indicator turns off.



5 **To place other discs, press DISC SKIP on the receiver. Place the discs in the order you want to play.**

Each time you press the button, the disc tray turns and you can place the discs in the empty disc compartments. The receiver plays the disc in front of you first.

6 **Press ►.**

The disc tray closes, and the receiver starts playback.

To play back other disc, press DISC SKIP or DISC 1-DISC 5.

Adjust the volume on the receiver.

After following Step 6

Depending on the disc, a menu may appear on the TV screen. You can play the disc interactively by following the instructions on the menu. (DVD: page 27), (VIDEO CD: page 27).

To remove the disc

Press ⏏ on the receiver or OPEN/CLOSE on the remote. “OPEN” appears in the front panel display. Remove the disc after the disc tray slides out from the receiver.

continued

To turn on the receiver

Press POWER on the receiver. The receiver enters standby mode and the STANDBY indicator lights up in red. Press I/⏻ on the remote. The receiver turns on and the STANDBY indicator turns off. In standby mode, the receiver also turns on by pressing ⏏, DISC 1-DISC 5, or FUNCTION –/+ on the receiver or by pressing ▷.

To turn off the receiver

Press I/⏻ on the remote. The receiver enters standby mode and the STANDBY indicator lights up in red. To turn off the receiver completely, press POWER on the receiver. While playing a disc, do not turn off the receiver by pressing POWER. Doing so may cancel the menu settings. When you turn off the receiver, first press ■ to stop playback and then press I/⏻ on the remote.

To select a disc using the remote

Press DISC and select “DISC 1-DISC 5” or “D SKIP” using Cursor key, then push Cursor key.

Tips

- If a disc is already inserted in a disc tray, you can play it back simply by pressing ▷ or its corresponding DISC 1-DISC 5, even if the previous music source was not a DVD. The function changes to DVD and playback starts (Auto-Function).
  However, if Program Play is on, you can only start playback by pressing ▷.
- The DISC indicators change as follows:
  - light blue: the disc tray is selected, or the disc is being played back.
  - off: there is no disc.
  - dark blue: a disc is placed on the disc tray, however, the disc tray is not chosen.
    Before the disc existence is checked, the indicators are in dark blue.

Saving power in standby mode

Press I/⏻ on the remote once.

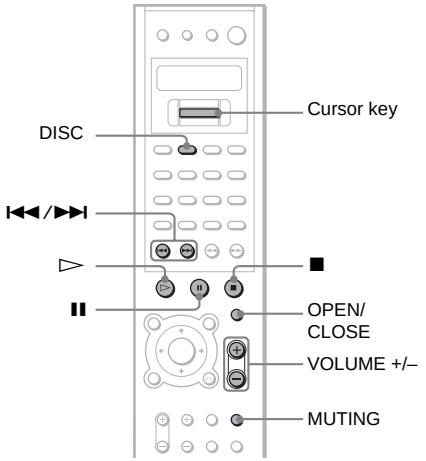
Tip

While the receiver is in standby mode, the STANDBY indicator on the receiver lights up.

To cancel standby mode

Press I/⏻ on the remote once.

Additional operations



To	Press
Stop	■
Pause*	II
Resume play from pause	II or ▷
Go to the next chapter, track, scene, or file in continuous play mode	▶▶I
Go back to the preceding chapter, track, scene, or file in continuous play mode	I◀◀
Stop play and remove the disc	⏏ on the receiver or OPEN/CLOSE on the remote.
Mute the sound	MUTING. To cancel muting; press it again or VOLUME + to adjust the sound volume.
Change a disc while playing another disc	Press EX-CHANGE on the receiver.
Play the desired disc directly	Press DISC 1-DISC 5 on the receiver or press DISC on the remote and select “DISC 1-DISC 5” using Cursor key, then push Cursor key.

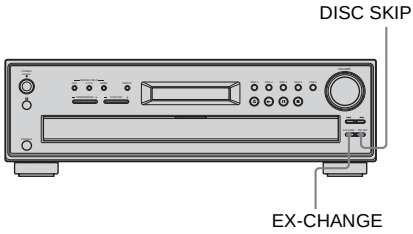
* You cannot pause during JPEG playback.

Notes

- Do not push the disc tray when closing it. Press ⏏ on the receiver or OPEN/CLOSE on the remote to close the disc tray.
- If DVD playback is paused for approximately one hour, the receiver automatically turns off.

Replacing Discs While Playing a Disc

You can open the disc tray while playing a disc, to check what discs are to be played next or replace discs without interrupting play of the current disc.



1 **Press EX-CHANGE.**

The disc tray opens and two disc compartments appear. Playback of the current disc continues.

2 **Replace discs in the compartments with new ones.**

The receiver plays the disc in the left side compartment after the current disc, and then the one in the right side compartment.

3 **Press DISC SKIP.**

The disc tray turns and other two disc compartments appear.

4 **Replace discs in the compartments with new ones.**

5 **Press EX-CHANGE.**

The disc tray closes.

Notes

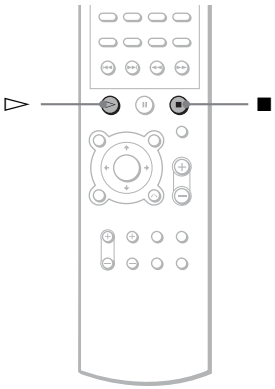
- Do not push the disc tray to close it in Step 5, as you may damage the receiver.
- If “REMOVE” is displayed in the front panel display, remove the disc in front of you and turn off the receiver once, and then turn it on again.

Resuming Playback from the Point Where You Stopped the Disc

(Resume Play)

DVD VIDEO CD SA-CD CD MP3

When you stop the disc, the receiver remembers the point where you pressed ■ and "RESUME" appears in the front panel display. As long as you do not remove the disc, Resume Play will work even if the receiver enters standby mode by pressing I/⏻.



1 **While playing a disc, press ■ to stop playback.**

"RESUME" appears in the front panel display, so you can restart the disc from the point where you stopped the disc.

If "RESUME" does not appear, Resume Play is not available.

2 **Press ▷.**

The receiver starts playback from the point where you stopped the disc in Step 1.

Notes

- Depending on where you stop the disc, the receiver may not resume playback from exactly the same point.
- The point where you stopped playing is cleared if:
  - you change the play mode.
  - you change the setting on the Setup Menu.

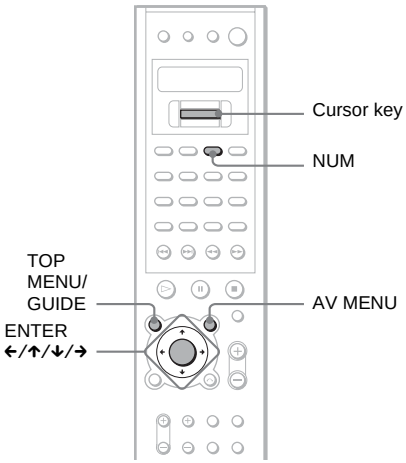
Tip

To play from the beginning of the disc, press ■ twice, then press ▷.

Using the DVD's Menu

DVD

A DVD is divided into long sections, which make up a picture or music feature. These sections are called "titles." When you play a DVD which contains several titles, you can select the title you want using TOP MENU/ GUIDE.
When you play DVDs that allow you to select items such as the language for the subtitles and the language for the sound, select these items using AV MENU.



1 Press TOP MENU/GUIDE or AV MENU.

The disc's menu appears on the TV screen.
The contents of the menu vary from disc to disc.

2 Press ←/↑/↓/→ to select the item you want to play or change, or enter the number.

3 Press ENTER.

Note

If the DVD top menu or a DVD menu is displayed during DVD playback for approximately one hour, the receiver automatically turns off.

To enter the number

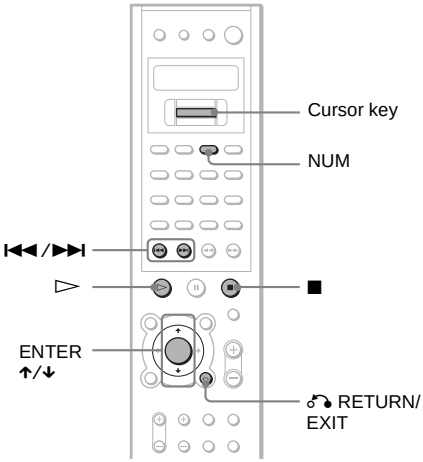
Press NUM and move Cursor key until the number you want to enter appears in the remote's display. Then push Cursor key.

Playing VIDEO CDs with PBC Functions (Ver. 2.0)

(PBC Playback)

VIDEO CD

With PBC (Playback Control) functions, you can enjoy simple interactive operations, search functions, and other such operations.
PBC playback allows you to play VIDEO CDs interactively by following the menu on the TV screen.



1 Start playing a VIDEO CD with PBC functions.

The menu for your selection appears.

2 Select the item number you want by pressing ↑/↓, or enter the number.

3 Press ENTER.

4 Follow the instructions in the menu for interactive operations.

Refer to the operation details supplied with the disc, as the operating procedure may differ, depending on the VIDEO CD.

To enter the number

Press NUM and move Cursor key until the number you want to enter appears in the remote's display. Then push Cursor key.

continued

To go back to the menu

Press ↶ RETURN/EXIT.

Notes

- Depending on the VIDEO CD, the menu does not appear in Step 1.
- Depending on the VIDEO CD, “Press ENTER” in Step 3 may appear as “Press SELECT” in the instructions supplied with the disc. In this case, press ▷.

Tip

To play without using PBC, press ⏮/⏭ or NUM and Cursor key while the receiver is stopped to select a track, then press ▷ or ENTER.

“Play without PBC” appears on the TV screen and the receiver starts continuous play. You cannot play still pictures such as a menu. To return to PBC playback, press ■ twice, then press ▷.

Playing an MP3 Audio Track

MP3

You can play MP3 audio tracks on CD-ROMs, CD-Rs, or CD-RWs. However, the discs must be recorded according to ISO9660 level 1, level 2, or Joliet format for the receiver to recognize the tracks. You can also play discs recorded in Multi Session. See the instructions of the CD-R/RW device or recording software (not supplied) for details on the recording format.

1 Load a data disc recorded in MP3 into the receiver.

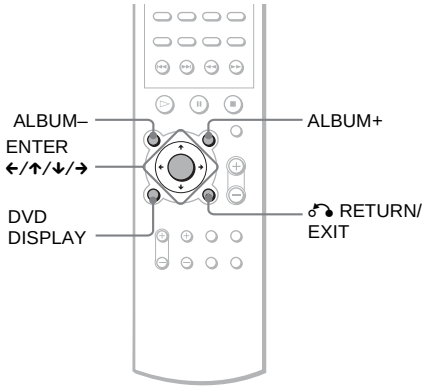
2 Press ▷.

The receiver starts to play the first MP3 audio track in the first album on the disc.

Notes

- The receiver can play MP3 (MPEG1 Audio Layer3) audio. The receiver cannot play audio tracks in MP3PRO format.
- This receiver can play Multi Session CDs when an MP3 audio track is located in the first session. Any subsequent MP3 audio tracks, recorded in the later sessions, can also be played back.
- Maximum number of albums on a disc: 99 (The maximum number of MP3 audio tracks that can be contained in an album is 250.)
- An album that does not include an MP3 audio track is skipped.
- If you put the extension “.MP3” to data not in MP3 format, the receiver cannot recognize the data properly and will generate a loud noise which could damage your speaker system.
- If the receiver cannot play MP3, remove the disc and select “CUSTOM SETUP” from the setup items. Then select “DATA CD PRIORITY” and set to “MP3” (page 77) and insert the disc again.
- The receiver can play to a depth of 8 directories.

Selecting an album and track

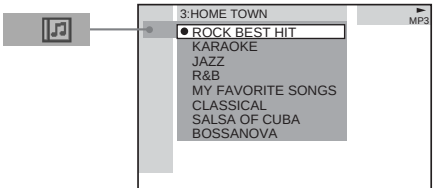


1 **Press DVD DISPLAY.**

The Control Menu and name of the MP3 data disc appear.

2 **Press ↑/↓ to select (ALBUM) then press ENTER or →.**

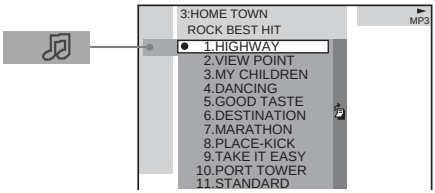
The list of albums contained in the disc appears.



3 **Select an album you want to play using ↑/↓ and press ENTER.**

4 **Select (TRACK) using ↑/↓ and press ENTER.**

The list of tracks contained in the current album appears.



When the list of all tracks or albums cannot be displayed on the window, the jump bar appears. Press → to select the jump bar icon, and then scroll the jump bar to display the rest of the list using ↑/↓. Press ← or RETURN/EXIT to return to the track or the album list.

5 **Select a track using ↑/↓ and press ENTER.**

The selected track starts playing.

To return to the previous display

Press RETURN/EXIT or ←.

To turn off the Control Menu

Press DVD DISPLAY.

Notes

- Only alphabetical letters and numbers can be used for album or track names. Anything else is displayed as " ".
- If the MP3 file you play back has an ID3 tag, the ID3 tag information is displayed as a track name.
- ID3 tag applies only to version 1.
- If an MP3 file of VBR (variable bit rate) is played, indicated elapsed time may be different from the actual time.

Tip

When an MP3 data disc is inserted, you can select an album using the ALBUM– or ALBUM+ on the remote.

Playing JPEG Image Files

JPEG

You can play JPEG image files on CD-ROMs, CD-Rs, or CD-RWs. However, the discs must be recorded according to ISO9660 level 1, level 2 or Joliet format for the receiver to recognize the files. You can also play discs recorded in Multi Session. See the instructions of the CD-R/RW device or recording software (not supplied) for details on the recording format.

1 Load a data disc recorded in JPEG into the receiver.

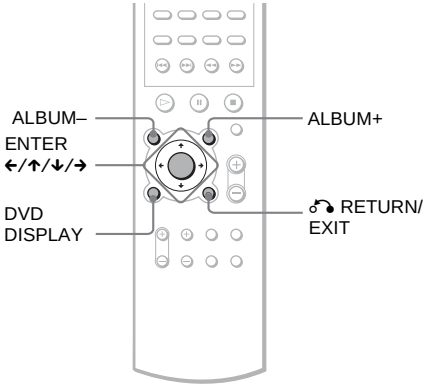
2 Press ▷.

The receiver starts to play the first JPEG image file in the first album on the disc.

Notes

- The receiver can play the extension ".JPG" or ".JPEG."
- The receiver can play Multi Session CDs.
- Maximum number of albums on a disc: 99 (The maximum number of JPEG image files that can be contained in an album is 250.)
- An album that does not include a JPEG file is skipped.
- When the receiver cannot play JPEG, remove the disc and select "CUSTOM SETUP" from the setup items. Then select "DATA CD PRIORITY" and set to "JPEG" (page 77) and insert the disc again.
- A JPEG image file of a length or width of more than 4,720 dots cannot be played.
- Some CD-Rs or CD-RWs cannot be played on this receiver depending on file format.
- The receiver can play to a depth of 8 directories.
- Progressive JPEG image files cannot be played on this receiver.

Selecting an album and file

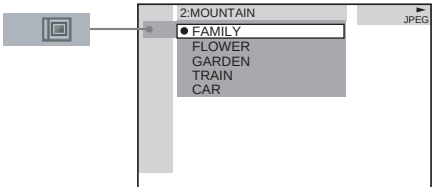


1 Press DVD DISPLAY.

The Control Menu and name of the JPEG data disc appear.

2 Press ↑/↓ to select (ALBUM) then press ENTER or →.

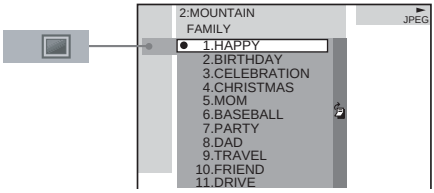
The list of albums contained in the disc appear.



3 Select an album you want to play using ↑/↓ and press ENTER.

4 **Select (FILE) using ↑/↓ and press ENTER.**

The list of files contained in the current album appears.



When the list of all files or albums cannot be displayed on the window, the jump bar appears. Press → to select the jump bar icon, and then scroll the jump bar to display the rest of the list using ↑/↓. Press ← or ↩ RETURN/EXIT to return to the file or the album list.

5 **Select a file using ↑/↓ and press ENTER.**

The selected file starts playing.

To return to the previous display

Press ↩ RETURN/EXIT or ←.

To turn off the Control Menu

Press DVD DISPLAY.

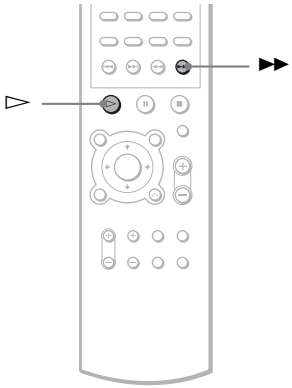
Note

Only alphabetical letters and numbers can be used for album or file names. Anything else is displayed as " ".

Tip

When a JPEG data disc is inserted, you can select an album using the ALBUM– or ALBUM+ on the remote.

Enjoying Slide Show on a JPEG data disc



1 **Press ▶▶ while displaying a JPEG image.**

Slide Show starts from the current image.

2 **Press ▷ when you want to exit Slide Show.**

Return to normal play from the current image.

To change the interval time of Slide Show

Each time you press ▶▶ during Slide Show, the interval time changes. With each press, the indication changes as follows:

FF1▶▶ → FF2▶▶ → FF3▶▶

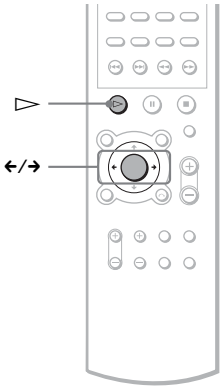
FF3▶▶ interval time is faster than FF2▶▶.

Note

Slide Show can play in only one direction.

continued

To rotate the current image



Rotate the current image using ←/→

Each time you press →, the image turns clockwise by 90°.

Each time you press ←, the image turns counterclockwise by 90°.

Note

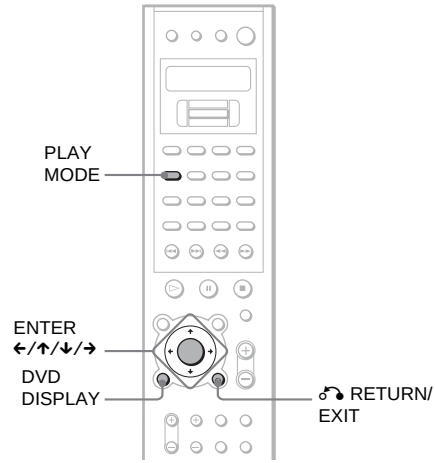
You cannot rotate an image during Slide Show. Press ▷ to return to normal play before this operation.

Selecting the Play Mode

(All Discs, One Disc, or Album)

DVD VIDEO CD SA-CD CD MP3 JPEG

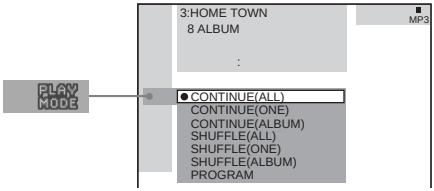
You can select the play mode to play all discs continuously, one disc, or one album.



1 **In stop mode, press DVD DISPLAY**

The Control Menu appears.

2 **Press ↑/↓ to select PLAY MODE (PLAY MODE), then press ENTER or →.**



ALL/ONE/ALBUM

- ALL: The receiver plays all discs in the receiver consecutively in the order of the disc slot number, and you can set Shuffle Play (except DVD and JPEG) or Repeat Play for all the discs.
- ONE: The receiver plays only the one disc you have selected, and you can set Shuffle Play (except DVD and JPEG) or Repeat Play for 1 disc only.
- ALBUM (MP3 and JPEG only): The receiver plays tracks or files in the album that is contained on a MP3 or JPEG disc, and you can set Shuffle Play (MP3 only) or Repeat Play for the album. When the disc except an MP3 or JPEG disc is played, the receiver plays the disc in ONE play mode.

To return to the previous display

Press ↩ RETURN/EXIT or ←.

To turn off the Control Menu

Press DVD DISPLAY.

Tip

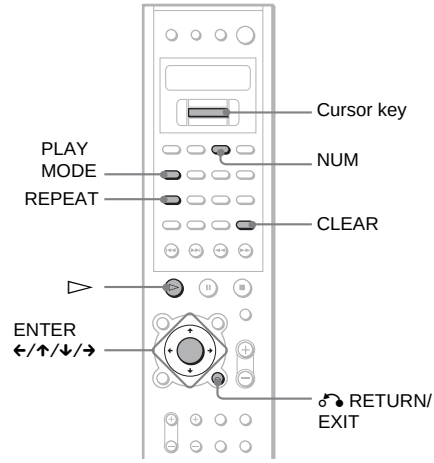
You can select the Play Mode directly by pressing PLAY MODE. Each time you press the button, the Play Mode changes.

Creating Your Own Program

(Program Play)

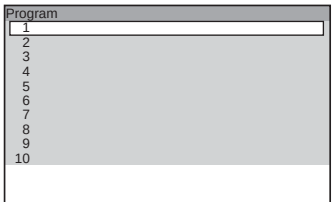
VIDEO CD SA-CD CD MP3

You can play the contents of a disc in the order you want by arranging the order of the tracks on the disc to create your own Program. You can program up to 25 steps.



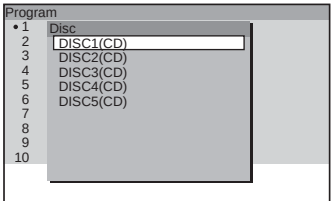
1 In stop mode, press PLAY MODE repeatedly until "PROGRAM" appears in the front panel display.

The program menu appears on the TV screen.



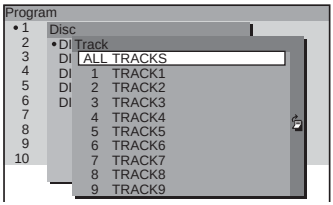
continued

2 Press →, then press ↑/↓ to select the disc.



3 Press →.

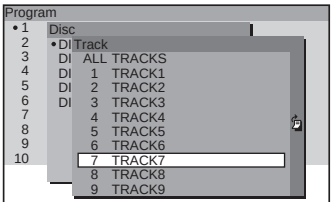
The cursor moves to the track (in this case, "1"). Before programming the MP3 tracks, it is required to select the album.



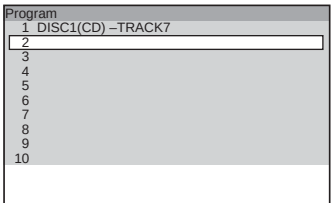
When the list of all tracks cannot be displayed on the window, the jump bar appears. Press → to select the jump bar icon, and then scroll the jump bar to display the rest of the list using ↑/↓. Press ← or ↩ RETURN/EXIT to return to the track list.

4 Select the track you want to program.

For example, select track "7."



5 Press ↑/↓ or NUM and Cursor key to select "7" then press ENTER.



6 To program other tracks, repeat Steps 2 to 5.

The programmed tracks are displayed in the selected order.

7 Press ▷ to start Program Play.

Program Play begins.

When the program ends, you can restart the same program again by pressing ▷.

To enter the number

Press NUM and move Cursor key until the number you want to enter appears in the remote's display. Then push Cursor key.

Other Operations

To	Do this
Return to normal play	Press CLEAR during playback.
Turn off the program menu	In stop mode, press PLAY MODE to turn off the program menu.
Cancel the programmed order	Press CLEAR while the program window is displayed and the last program is cancelled.

Notes

- The Program Play function is not available for DVDs and JPEG.
- Even if you replace discs, the programmed disc and track numbers remain. Therefore, the player will play the new disc and track numbers. However, a programmed disc and track numbers that are not found in the player or on the disc are deleted from the program, and the rest of the program is played in the programmed order.

Tip

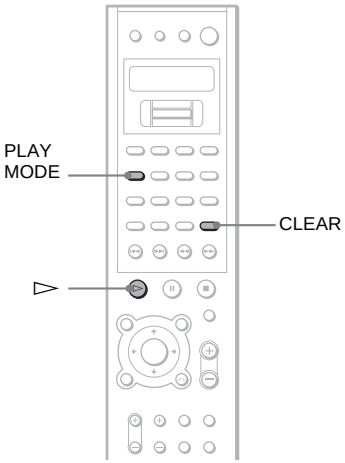
You can perform Repeat Play of programmed tracks. Press REPEAT, or set "REPEAT" to "ALL" in the Control Menu display during program Play (page 36). Repeat mode will be cancelled, if you set REPEAT (except "ALL").

Playing in Random Order

(Shuffle Play)

VIDEO CD SA-CD CD MP3

You can have the receiver "shuffle" tracks and play them in random order. Subsequent "shuffling" will produce a different playing order.



1 In stop mode, press PLAY MODE repeatedly until "SHUFFLE" appears in the front panel display.

When you play an MP3 disc, you can play all tracks in albums in random order.

For details on album shuffle, see page 35.

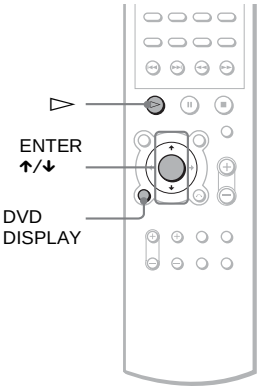
2 Press ▷.

To return to normal play

In stop mode, press PLAY MODE repeatedly until "SHUFFLE" disappears from the front panel display or press CLEAR to return to normal play.

Setting the shuffle mode in the Control Menu

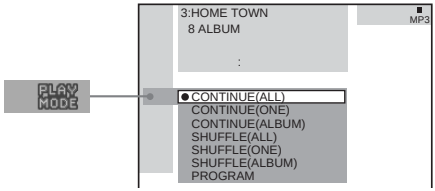
You can select either normal shuffle or album shuffle (MP3 only).



1 Press DVD DISPLAY.

The Control Menu appears.

2 Press ↑/↓ to select PLAY MODE (PLAY MODE), then press ENTER.



3 Select SHUFFLE (ALL), SHUFFLE (ONE), or SHUFFLE (ALBUM) using ↑/↓, and press ENTER.

SHUFFLE (ALL): Plays all tracks on all discs in random order.

SHUFFLE (ONE): Plays tracks on the disc in random order.

SHUFFLE (ALBUM): Plays tracks from a selected album in random order.

4 Press ▷.

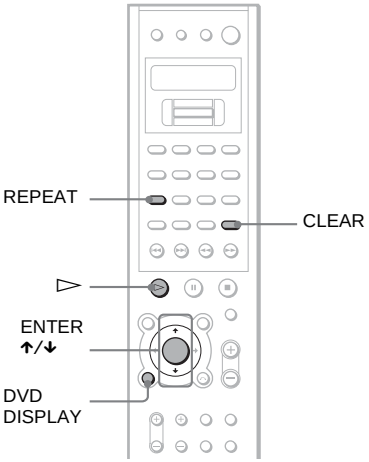
The selected Shuffle Play begins.

Playing Repeatedly

(Repeat Play)

DVD VIDEO CD SA-CD CD MP3 JPEG

You can play all the titles/tracks/files or a single title/chapter/track/album on a disc.
In Shuffle or Program Play mode, the receiver repeats tracks in shuffled or programmed order.
You cannot perform Repeat Play during PBC playback of VIDEO CDs (page 27).



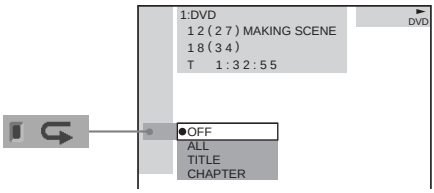
1 Press DVD DISPLAY.

The Control Menu appears.

2 Press ↑/↓ to select (REPEAT), then press ENTER.

If you do not select “OFF,” the “REPEAT” indicator lights up in green.

3 Select the Repeat Play setting, then press ENTER.



■ When playing a DVD

- OFF: does not play repeatedly.
- ALL: repeats all the titles (except SHUFFLE (ALL)).
- TITLE: repeats the current title on a disc.
- CHAPTER: repeats the current chapter.

■ When playing a VIDEO CD/Super Audio CD/CD/MP3, and when Program Play is set to OFF

- OFF: does not play repeatedly.
- ALL: repeats all the tracks on the disc, or repeats the current album (only when CONTINUE (ALBUM) or SHUFFLE (ALBUM) in the play mode is selected) (except SHUFFLE (ALL)).
- TRACK: repeats the current track.

■ When playing a JPEG

- OFF: does not play repeatedly.
- ALL: repeats all the files on the disc (when CONTINUE is selected in the play mode), or repeats the current album (when CONTINUE (ALBUM) is selected in the play mode).

■ When Program Play is set to ON

- OFF: does not play repeatedly.
- ALL: repeats Program Play.

To cancel Repeat Play

Press CLEAR.

Notes

- Depending on the DVD disc, repeat play does not work.
- If “ALL” is selected, repeat play is limited to 5 times.

Tips

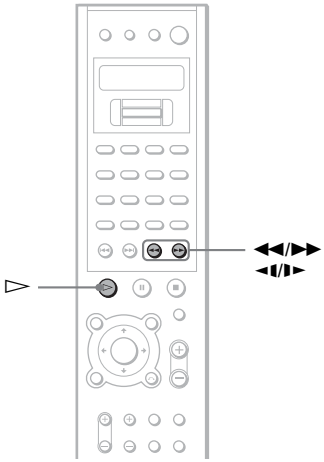
- You can set Repeat Play during stop mode. After selecting the “REPEAT” item, press ▷. The receiver starts Repeat Play.
- You can quickly display the “REPEAT” status. Press REPEAT on the remote.
- You can perform Repeat Play for DVD titles that contain chapters.

Searching for a Particular Point on a Disc

(Scan, Slow-motion Play)

DVD VIDEO CD SA-CD CD

You can locate a particular point on a disc quickly by monitoring the picture or by playing back slowly.



Notes

- Depending on the DVD/VIDEO CD, you may not be able to perform some of the operations described.
- During scan or slow-motion play, no sound is output.

Locating a point quickly by playing a disc in fast forward or fast reverse (Scan)

1 Press ◀◀ or ▶▶ while playing a disc.

2 When you find the point you want, press ▷ to return to normal speed.

To change the scan speed (DVD/VIDEO CD only)

Each time you press ◀◀ or ▶▶ during scan, the playback speed changes. Two speeds are available. With each press, the indication changes as follows:

Playback direction
FF1▶▶ → FF2▶▶

Opposite direction
FR1◀◀ → FR2◀◀

FF2▶▶/FR2◀◀ playback speed is faster than FF1▶▶/FR1◀◀.

Watching frame by frame (Slow-motion play) (DVD/VIDEO CD only)

Press ◀❚ or ❚▶ when the receiver is in the pause mode.

To return to normal speed, press ▷.

To change the speed of Slow-motion play

Each time you press ◀❚ or ❚▶ during Slow-motion play, the playback speed changes. Two speeds are available. With each press, the indication changes as follows:

Playback direction
SLOW 2❚▶ → SLOW 1❚▶

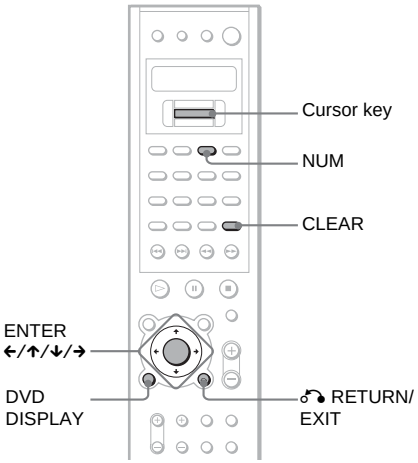
Opposite direction (DVD only)
SLOW 2◀❚ → SLOW 1◀❚

SLOW 2❚▶/SLOW 2◀❚ playback speed is slower than SLOW 1❚▶/SLOW 1◀❚.

Searching for a Title/ Chapter/Track/Index/ Album/File

DVD VIDEO CD SA-CD CD MP3 JPEG

You can search a title (DVD), chapter (DVD), track (CD, VIDEO CD, Super Audio CD, MP3), index (VIDEO CD, Super Audio CD), album (MP3, JPEG), and file (JPEG). As titles, tracks, albums and files are assigned individual names on the disc, you can select the desired one from the Control Menu. Also chapters and indexes are assigned individual numbers on the disc, so you select the desired one by entering its number. Or you can search a particular point using the time code (TIME SEARCH).



Searching for a title/track/ album/file

1 **Press DVD DISPLAY.**

The Control Menu appears.

2 **Press ↑/↓ to select the search method, then press ENTER.**

■ When playing a DVD

(TITLE)

■ When playing a VIDEO CD

(TRACK)

■ When playing a Super Audio CD

(TRACK)

■ When playing a CD

(TRACK)

■ When playing an MP3

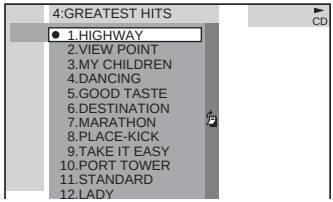
(ALBUM) or (TRACK)

■ When displaying a JPEG file

(ALBUM) or (FILE)

Example: when you select (TRACK)

The list of tracks contained in the disc appears.



When the list of all tracks or albums cannot be displayed on the window, the jump bar appears. Press → to select the jump bar icon, and then scroll the jump bar to display the rest of the list using ↑/↓. Press ← or RETURN/EXIT to return to the track or the album list.

3 **Press ↑/↓ to select the desired track, then press ENTER.**

The receiver starts playback from the selected track.

Searching for a chapter/index

1 Press DVD DISPLAY.

The Control Menu appears.

2 Press ↑/↓ to select the search method.

■ When playing a DVD

(CHAPTER)

■ When playing a VIDEO CD

(INDEX)

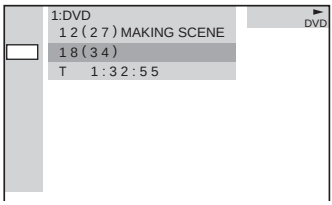
■ When playing a Super Audio CD

(INDEX)

Example: when you select (CHAPTER)

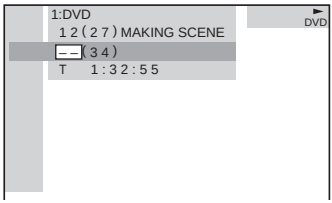
"** (**)" is selected (** refers to a number).

The number in parentheses indicates the total number of titles, chapters, tracks, or indexes.



3 Press ENTER.

"** (**)" changes to "-- (**)."



4 Press ↑/↓ to select the chapter or index number you want to search, or enter the number.

If you make a mistake

Cancel the number by pressing CLEAR, then select another number.

5 Press ENTER.

The receiver starts playback from the selected number.

To enter the number

Press NUM and move Cursor key until the number you want to enter appears in the remote's display. Then push Cursor key.

To turn off the Control Menu

Press DVD DISPLAY.

To search for a particular point using the time code (TIME SEARCH)

Example: If you search for the playing time of the current title on a DVD.

1 In Step 2, select (TIME).
"T **:**:**" (playing time of the current title) is selected.

2 Press ENTER.
"T--:--:--" appears above "T**:**:**."

3 Input the time code. Press NUM and select the time code number using Cursor key, then push Cursor key.
For example, to find a desired point at 2 hours, 10 minutes, and 20 seconds after the beginning, just enter "2:10:20."

Press NUM
↓
Select "2" and push Cursor key.
↓
Select "1" and push Cursor key.
↓
Select "0" and push Cursor key.
↓
Select "2" and push Cursor key.
↓
Select "0" and push Cursor key.

Notes

- The title, chapter or track number displayed on the TV screen is recorded data in the disc.
- You cannot search a scene of a VIDEO CD.
- If you play a DVD, input the playing time of the current title using the time code. If you play a CD, Super Audio CD, VIDEO CD, or MP3, input the playing time of the current track using the time code.

continued

Tip

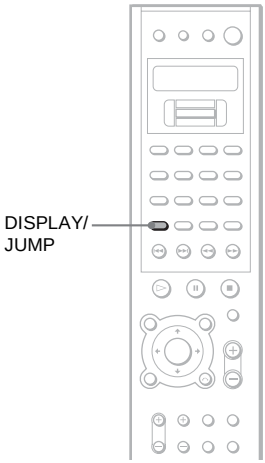
You can change the display to show playing time or remaining time. For details, see “Checking the Playing Time and Remaining Time in the Control Menu” (page 43).

Viewing Disc Information

DVD VIDEO CD SA-CD CD MP3 JPEG

Viewing the Playing Time and Remaining Time in the Front Panel Display

You can check disc information, such as the remaining time, total number of titles in a DVD, or tracks in a Super Audio CD, CD, VIDEO CD or MP3, using the front panel display (page 90).



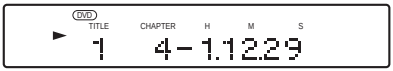
Press DISPLAY/JUMP.

Each time you press DISPLAY/JUMP while playing the disc, the display changes as shown in the charts.

When playing a DVD

Playing time and number of the current title

Remaining time of the current title



Playing time and number of the current chapter

Remaining time of the current chapter

Title name*

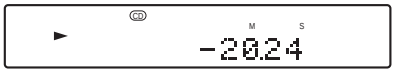
When playing a VIDEO CD (without PBC functions), Super Audio CD or CD

Playing time and current track number (When playing a CD)

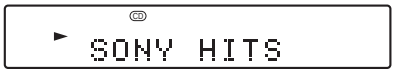
Remaining time of the current track

Playing time of the disc

Remaining time of the disc



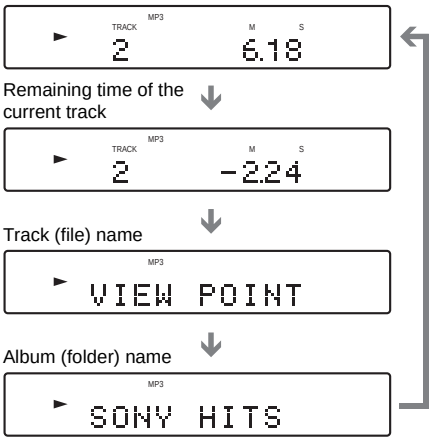
Track name*



continued

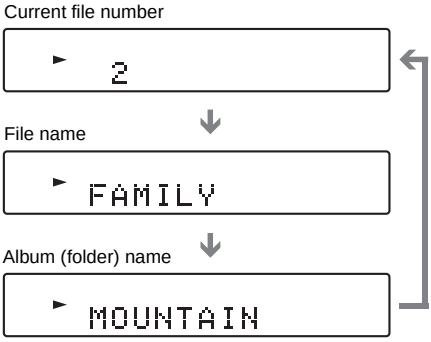
When playing an MP3

Playing time and current track number



When playing a JPEG

Current file number



* “NO TEXT” appears if name information does not exist.

Notes

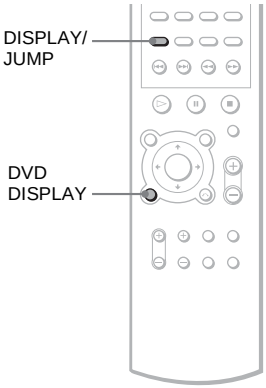
- Depending on the type of disc being played and the playing mode, the disc information may not be displayed.
- ID3 tag applies only to version 1.
- If the MP3 file you play back has an ID3 tag, the ID3 tag information is displayed as a track name.
- Only alphabetical letters and numbers can be used for album or track names. Anything else is displayed as “ ”.
- In the following cases, elapsed playing time and current track remaining time may not be displayed accurately.
  - when an MP3 file of VBR (variable bit rate) is played.

Tips

- When playing VIDEO CDs with PBC functions, only the playing time of the scene is displayed.
- The playing time and remaining time of the current chapter, title, track, scene, or disc will also appear on your TV screen. See the following section “Checking the Playing Time and Remaining Time” for details on how to read this information.

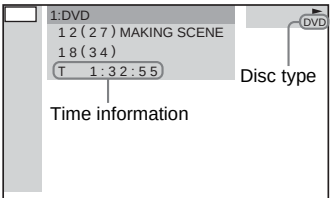
Checking the Playing Time and Remaining Time in the Control Menu

You can check the playing time and remaining time of the current title, chapter, or track, and the total playing time or remaining time of the disc. You can also check the DVD/CD/Super Audio CD text and MP3 folder name/file name/ID3 tag (only song title) recorded on the disc.



1 **Press DVD DISPLAY during playback.**

The Control Menu appears.



2 **Press DISPLAY/JUMP repeatedly to change the time information.**

The display and the kinds of time that you can check depend on the disc you are playing.

■ When playing a DVD

- T **:**:**
  Playing time of the current title
- T–**:**:**
  Remaining time of the current title
- C **:**:**
  Playing time of the current chapter
- C–**:**:**
  Remaining time of the current chapter
- **:**:**
  Playing time of the menu or current title without a chapter

■ When playing a VIDEO CD (with PBC functions)

- **:**
  Playing time of the current scene

■ When playing a VIDEO CD (without PBC functions), Super Audio CD or CD

- T **:**
  Playing time of the current track
- T–**:**
  Remaining time of the current track
- D **:**
  Playing time of the current disc
- D–**:**
  Remaining time of the current disc

■ When playing an MP3

- T **:**
  Playing time of the current track
- T–**:**
  Remaining time of the current track

To turn off the Control Menu

Press DVD DISPLAY.

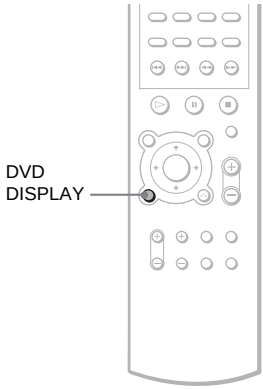
Notes

- Only alphabetical letters and numbers can be displayed.
- Depending on the type of disc being played, the receiver can only display a limited number of characters. Also, depending on the disc, not all text characters will be displayed.

continued

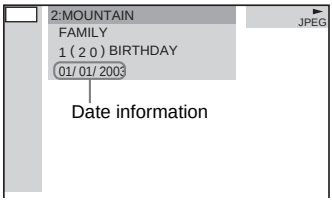
Checking the date information (JPEG only)

You can check the date information during playback when the Exif* tag is recorded in the JPEG image data.



Press DVD DISPLAY during playback.

The Control Menu appears.



* "Exchangeable Image File Format" is a digital camera image format defined by the Japan Electronics & Information Technology Industries Association.

Note

If there is no date information or data is damaged on the disc, the receiver cannot display the date information.

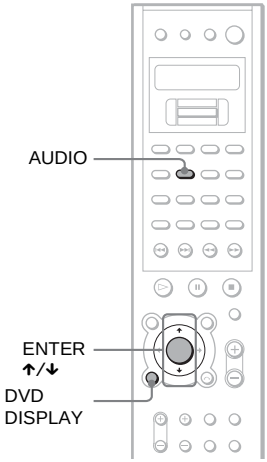
Tip

You can change the date information order in JPEG DATE of CUSTOM SETUP (page 77).

Changing the Sound

DVD VIDEO CD SA-CD CD MP3

If a DVD is recorded with multilingual tracks, you can select the language you want while playing the DVD.
If the DVD is recorded in multiple audio formats (PCM, Dolby Digital, MPEG audio, or DTS), you can select the audio format you want while playing the DVD.
With stereo CDs, VIDEO CDs or MP3, you can select the sound from the left or right channel and listen to the sound of the selected channel through both the left and right speakers (in this case, the sound loses its stereo effect). For example, when playing a disc containing a song with the vocals on the right channel and the instruments on the left channel, you can select the left channel and hear only the instruments from both speakers.

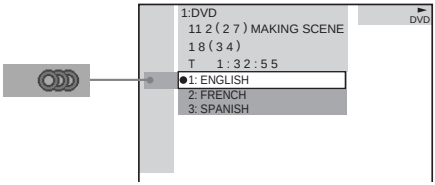


1 **Press DVD DISPLAY during playback.**

The Control Menu is displayed.

2 **Press ↑/↓ to select (AUDIO), then press ENTER.**

The options for AUDIO appear.



3 **Press ↑/↓ to select the desired audio signal.**

■ When playing a DVD

Depending on the DVD, the choice of language varies.
When 4 digits are displayed, they represent the language code. Refer to the language code list on page 93 to see which language the code represents. When the same language is displayed two or more times, the DVD is recorded in multiple audio formats.

■ When playing a VIDEO CD, CD, or MP3

The default setting is underlined.

- STEREO: The standard stereo sound
- 1/L: The sound of the left channel (monaural)
- 2/R: The sound of the right channel (monaural)

■ When playing a Super Audio CD

In stop mode, depending on the Super Audio CD, the choice of settings varies.

- MULTI: The disc has a multi-channel playback area.
- 2CH: The disc has a 2 channel playback area.
- CD: When you want to play the disc as a conventional CD.

Note

Not all discs give you the three choices above when in Super Audio CD playback. It all depends on the layer configuration of the Super Audio CD to be played.

4 **Press ENTER.**

continued

To turn off the Control Menu

Press DVD DISPLAY.

Notes

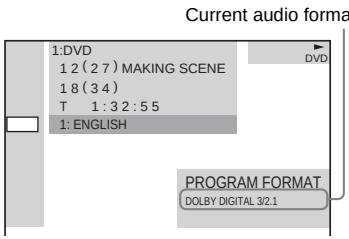
- For discs not in multiple audio format, you cannot change the sound.
- During DVD playback, the sound may change automatically.

Tip

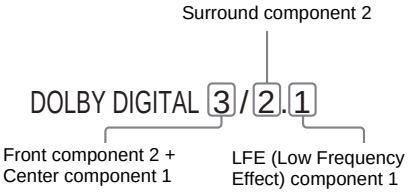
You can select "AUDIO" directly by pressing AUDIO. Each time you press the button, the item changes.

Displaying the audio information of the disc (DVD only)

When you select "AUDIO," the channels being played are displayed on the screen.
For example, in Dolby Digital format, multiple signals ranging from monaural to 5.1 channel signals can be recorded on a DVD. Depending on the DVD, the number of recorded channels may differ.



* "PCM," "MPEG," "DTS," or "DOLBY DIGITAL" is displayed.
For "DOLBY DIGITAL," the channels in the playing track are displayed numerically as follows:
For Dolby Digital 5.1 ch:



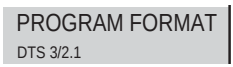
The display examples are as follows:

- PCM (stereo)

- Dolby Surround

- Dolby Digital 5.1ch

- DTS



Tips

- When the signal contains surround signal components such as LS, RS, or S, the surround effect is enhanced.
- If you play MPEG AUDIO sound tracks, the receiver outputs PCM (stereo) signals.
- Even though the audio stream contains a surround back component, the surround back channel is not displayed.
  Dolby Digital-EX or DTS-ES source is displayed as "3/2.1"on the screen.

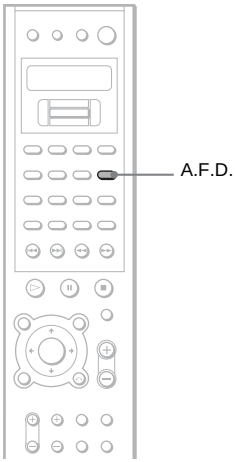
Enjoying Surround Sound

DVD VIDEO CD CD MP3

You can take advantage of surround sound simply by selecting one of receiver's pre-programmed sound fields. They bring the exciting and powerful sound of movie theatres into your home.
To select sound field, press A.F.D., 2CH, or MODE on the remote repeatedly until the sound field you want appears in the front panel display.

Automatic decoding of the audio input signal (AUTO FORMAT DIRECT AUTO)

The auto decoding function automatically detects the type of audio signal being input (Dolby Digital, DTS, or standard 2 channel stereo) and performs the proper decoding if necessary. This mode presents the sound as it was recorded/encoded, without adding any effects (e.g. reverberation).
However, if there are no low frequency signals (Dolby Digital LFE, etc.), it will generate a low frequency signal for output to the subwoofer.

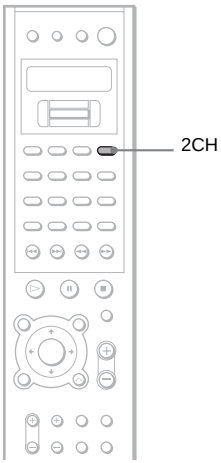


Press A.F.D. on the remote repeatedly until "A.F.D. AUTO" appears in the front panel display.

Sound field	Display
AUTO FORMAT DIRECT AUTO	A.F.D. AUTO

Using only the front speaker (2 CHANNEL STEREO)

This mode outputs the sound from the front left and right speakers. Standard two channel (stereo) sources completely bypass the sound field processing. Multi channel surround formats are downmixed to two channels.
This allows you to play any source using only the front left and right speakers.



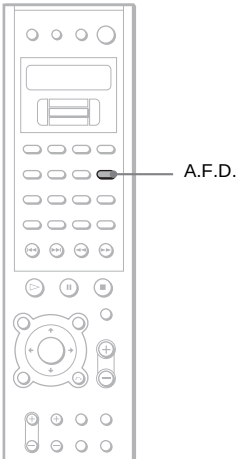
Press 2CH on the remote.

"2CH STEREO" appears in the front panel display.

Sound field	Display
2CHANNEL STEREO	2CH STEREO

continued

Selecting a sound field (A.F.D.button)



Press A.F.D. on the remote repeatedly until the sound field you want appears in the front panel display.

Sound field	Display
PRO LOGIC	PRO LOGIC
PRO LOGIC II MOVIE	PLII MOVIE
PRO LOGIC II MUSIC	PLII MUSIC
Neo:6 Cinema	NEO:6 CIN
Neo:6 Music	NEO:6 MUS

■ PRO LOGIC

Performs Dolby Pro Logic decoding. A source recorded in 2 channels is decoded into 4 channels.

■ PRO LOGIC II MOVIE

Performs Dolby Pro Logic II Movie mode decoding. This setting is ideal for movies encoded in Dolby Surround. In addition, this mode can reproduce sound in 5.1 channel when watching videos of old movies or with dubbed language.

■ PRO LOGIC II MUSIC

Performs Dolby Pro Logic II Music mode decoding. This setting is ideal for standard stereo sources, such as CDs.

■ Neo:6 Cinema

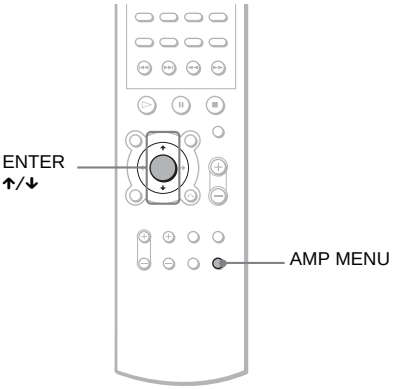
Performs the DTS Neo:6 Cinema mode decoding.

■ Neo:6 Music

Performs the DTS Neo:6 Music mode decoding. This setting is ideal for standard stereo sources, such as CDs.

Advanced setting

When a DTS 96/24 signal is input, you can change the sampling frequency.



1 Press AMP MENU.

Set the function of the remote to DVD, and then press AMP MENU.

2 Press ↑/↓ repeatedly until “dts 96/24” appears in the front panel display, then press ENTER.

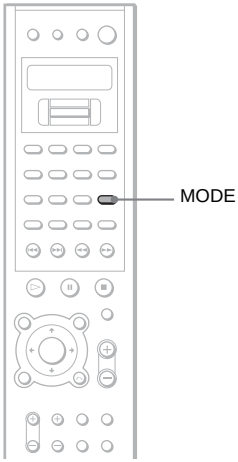
3 Press ↑/↓ to select “96/24 AUTO” then press ENTER or AMP MENU.

- AUTO: When a DTS 96/24 signal is input, it is played back at the 96 kHz sampling frequency.
- OFF: Even when a DTS 96/24 signal is input, it is played back at the 48 kHz sampling frequency.

Notes

- When the input signal is a multi-channel source, PRO LOGIC, PRO LOGIC II MOVIE/MUSIC, and Neo:6 Cinema/Music are cancelled and the multi channel source is output directly.
- Neo:6 Cinema/Music mode decoding is not available for DTS 2channel signal.
- When decoding by DTS 96/24 (except A.F.D. mode) in the sound field, output signals will be converted to 48 kHz (sampling frequency).
- When any speaker is set to “SMALL” or subwoofer is set to “NONE” in the speaker setting, output signals will be converted to 48 kHz (sampling frequency).

Selecting a sound field (MODE button)



Press MODE on the remote repeatedly until the sound field you want appears in the front panel display.

FOR MOVIE

Sound field	Display
CINEMA STUDIO EX A	C.ST.EX A*
CINEMA STUDIO EX B	C.ST.EX B*
CINEMA STUDIO EX C	C.ST.EX C*
V.MULTI DIMENSION	V.M.DIM

* Use DCS Technology

About DCS (Digital Cinema Sound)

In collaboration with Sony Pictures Entertainment, Sony measured the sound environment of their studios and integrated the data of the measurement and Sony's own DSP (Digital Signal Processor) technology to develop "Digital Cinema Sound." "Digital Cinema Sound" simulates in a home theatre an ideal movie theatre sound environment based on the preference of the movie director.

■ C.ST.EX A (Cinema Studio EX A)
Reproduces the sound characteristics of the Sony Pictures Entertainment "Cary Grant Theater" cinema production studio. This is a standard mode, great for watching most any type of movie.

■ C.ST.EX B (Cinema Studio EX B)
Reproduces the sound characteristics of the Sony Pictures Entertainment "Kim Novak Theater" cinema production studio. This mode is ideal for watching science-fiction or action movies with lots of sound effects.

■ C.ST.EX C (Cinema Studio EX C)
Reproduces the sound characteristics of the Sony Pictures Entertainment scoring stage. This mode is ideal for watching musicals or classic films where music is featured in the soundtrack.

■ V.M.DIM (VIRTUAL MULTI DIMENSION)*
Uses 3D sound imaging to create an array of virtual surround speakers positioned higher than listener from a single pair of actual surround speakers. This mode creates 5 sets of virtual speakers surrounding the listener at approximately a 30º angle of elevation.

* "VIRTUAL" sound field: Sound field with virtual speakers.

About Cinema Studio EX

Cinema Studio EX is ideal for enjoying the movie software encoded with multi channel format, such as the Dolby Digital DVD. This mode reproduces the sound characteristics of Sony Pictures Entertainment's studios. Cinema Studio EX consists of the following three elements.

- Virtual Multi Dimension
  Creates 5 sets of virtual speakers surrounding the listener from a single pair of actual surround speakers.
- Screen Depth Matching
  In a movie theatre, sound seems to come from inside the image reflected on the movie screen. This element creates the same sensation in your listening room by shifting the sound of the front speakers "into" the screen.
- Cinema Studio Reverberation
  Reproduces the reverberations peculiar to a movie theatre.

continued

Cinema Studio EX is the integrated mode which operates these elements simultaneously.

Notes

- The virtual speaker effect may cause increased noise in the playback signal.
- When listening with sound fields that employ virtual speakers, you will not be able to hear any sound coming directly from the surround speakers.

FOR MUSIC

Sound field	Display
HALL	HALL
JAZZ CLUB	JAZZ CLUB
LIVE CONCERT	L.CONCERT

■ HALL

Reproduces the acoustics of a rectangular concert hall.

■ JAZZ CLUB

Reproduces the acoustics of a jazz club.

■ L. CONCERT (Live Concert)

Reproduces the acoustics of a 300-seat live concert.

When using headphones

Sound field	Display
HEADPHONE THEATER	HP.THEATER
HEADPHONE 2CH	HP.[2CH]

■ HP. THEATER (HEADPHONE THEATER)

This mode is very effective with 5.1 ch discrete signal sources like Dolby Digital and DTS.

■ HP. [2CH] (HEADPHONE 2CH)

This mode outputs the sound from the headphone L/R. Standard 2 channel (stereo) sources completely bypass the sound field processing. Multi channel surround formats are downmixed to two channels.

To turn the surround effect off

Press A.F.D. on the remote repeatedly until "A.F.D AUTO" appears in the front panel display, or press 2CH on the remote to display "2CH STEREO."

Notes

- This function is unavailable when playing Super Audio CDs.
- When you play a Super Audio CD (Direct Stream Digital), the sound field changes to "AUTO FORMAT DIRECT AUTO" automatically.
- For PCM96 kHz sources, 2CH, A.F.D. and MODE is not available.

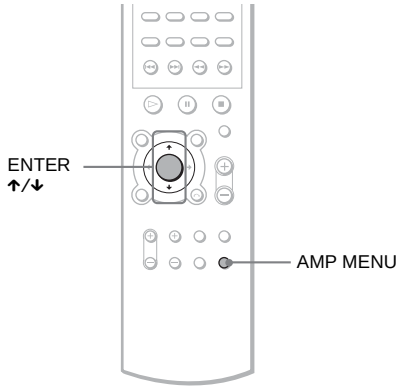
Tips

- When you want to output the TV sound or stereo sound of a 2 channel source from the 7 speakers, select any sound field other than "AUTO FORMAT DIRECT AUTO" or "2CH STEREO."
- Whenever you select a function such as DVD or TUNER, the sound field that was last applied to that function is automatically applied again. For example, if you listen to DVD with HALL as the sound field, then change to another function, and then return to DVD, HALL will be applied again. With the tuner, sound fields are memorized separately for all preset stations.
- You can identify the encoding format of program software by looking at its packaging.
  - Dolby Digital discs are labelled with the DOLBY DIGITAL logo.
  - DTS-ES or DTS 96/24 encoded programs are marked with DTS-ES or DTS 96/24.
  - Dolby Surround encoded programs are labelled with the DOLBY SURROUND logo.
  - DTS Digital Surround discs are marked with DTS.

Selecting the Surround Back Decoding Mode

DVD

This function lets you select the decoding mode for the surround back signals of the multi channel input stream.
By decoding the surround back signal of DVD software, etc., recorded in Dolby Digital EX, DTS-ES Matrix, DTS-ES Discrete 6.1 format, etc., you can enjoy the kind of surround sound originally intended for the film (page 85).



1 **Press AMP MENU.**

Set the function of the remote to DVD, and then press AMP MENU.

2 **Press ↑/↓ repeatedly until "SurrB DEC." appears in the front panel display, then press ENTER.**

3 **Press ↑/↓ to select the surround back mode you want according to the input stream, then press ENTER or AMP MENU.**

The default setting is "SB AUTO."

When selecting "SB AUTO"

When you input stream contains the 6.1 channel decoding flag[a], the appropriate decoder is applied to decode the surround back signal.

Input stream	Output channel	Applied surround back decoder
Dolby Digital 5.1	5.1	—
DTS 5.1	5.1	—
Dolby Digital EX[b]	6.1	Matrix decoder conforms to Dolby Digital EX
DTS-ES Matrix 6.1[c]	6.1	DTS Matrix decoder
DTS-ES Discrete 6.1[d]	6.1	DTS Discrete decoder

When selecting "SB MATRIX"

Dolby Digital EX is applied to decode the surround back signal regardless of the 6.1 channel decode flag[a] in the input stream. This decoder conforms to Dolby Digital EX, and functions the same as the decoders[e] used in movie theatres.

Input stream	Output channel	Applied surround back decoder
Dolby Digital 5.1	6.1	Matrix decoder conforms to Dolby Digital EX
DTS 5.1	6.1	Matrix decoder conforms to Dolby Digital EX
Dolby Digital EX[b]	6.1	Matrix decoder conforms to Dolby Digital EX
DTS-ES Matrix 6.1[c]	6.1	Matrix decoder conforms to Dolby Digital EX
DTS-ES Discrete 6.1[d]	6.1	Matrix decoder conforms to Dolby Digital EX

When selecting "SB OFF"

Surround back decoding is not performed.

a) 6.1 channel decode flag is information recorded in software like DVD.
b) Dolby Digital DVD that includes a Surround EX flag. Check the Dolby Corporation web page help for information about Surround EX films.
c) Software encoded with a flag to denote it has both Surround EX and 5.1 channel signals.
d) Software encoded with both 5.1 channel signals and an extension stream designed for returning those signals to 6.1 discrete channels. Discrete 6.1 channel signals are DVD specific signals, not used in movie theatres.
e) This decoder can be used for all 6.1 formats (Dolby Digital EX, DTS-ES Matrix 6.1, and DTS-ES Discrete 6.1).

continued

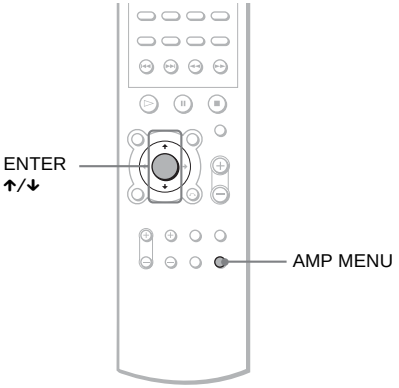
Notes

- You can select the surround back decoding only when A.F.D. mode is selected (page 48). In other sound fields, this function is bypassed internally.
- Some discs have no Dolby Digital EX flag, even though their packaging may contain a Dolby Digital Surround EX logo. In this case, select "SB MATRIX."

Selecting the Decode Priority

DVD VIDEO CD CD MP3

This function lets you select the decode priority when digital signals are input from the DIGITAL IN (OPTICAL IN/COAXIAL IN) jack, or digital signals are processed in DVD mode.



1 **Press AMP MENU.**

Set the function of the remote to DVD, and then press AMP MENU.

2 **Press ↑/↓ repeatedly until "DEC. PRI." appears in the front panel display, then press ENTER.**

3 **Press ↑/↓ to select the decode priority you want, then press ENTER or AMP MENU.**

The default setting is "PCM."

When selecting "PCM"

PCM signals are given priority (to prevent the interruption when playback starts). Even when other signals are input, the sound will be output. However, when DTS-CD signals are output, no sound or noise will be heard. In this case, select "AUTO."

When selecting "AUTO"

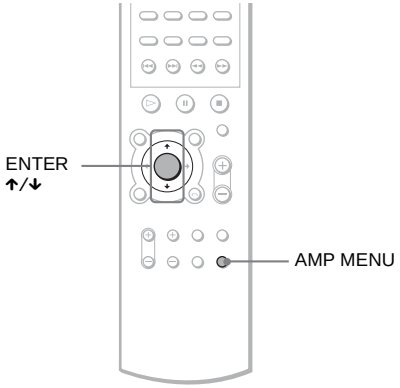
The most suitable decode method is automatically selected from DTS, Dolby Digital, or PCM. However, when PCM signal playback starts, sound will not be output initially.

Tip

As long as DVD mode is selected, you can play DTS-CD even if "PCM" is selected.

Changing the Speaker Impedance Value

You can change the impedance value in accordance with your speaker's impedance. The default settings are underlined.



1 Press AMP MENU.

Set the function of the remote to DVD, and then press AMP MENU.

2 Press ↑/↓ repeatedly until "SP. IMP. (Ω)" appears in the front panel display, then press ENTER.

3 Press ↑/↓ to select "SP 4Ω/6Ω" or "SP 8Ω" in accordance with impedance, then press ENTER or AMP MENU.

SP 8Ω	Select this if the speaker impedance value is 8 ohms or higher.
SP 4Ω/6Ω	Select this if the speaker impedance value is under 8 ohms.

Notes

- Use high performance speakers.
- Use suitably sized speakers of similar performance for the front, center, surround, and surround back speakers.

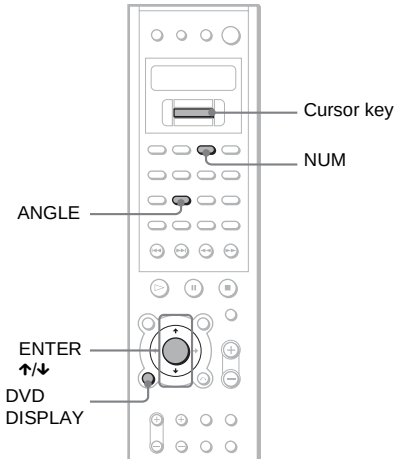
Speaker impedance

To enjoy the best possible multi channel surround, connect speakers with a nominal impedance of 8 ohms or higher to the FRONT, CENTER, SURROUND and SURROUND BACK terminals, and set the value to "SP 8Ω" Refer to the operating instructions supplied with your speakers if you are not sure of their impedance. (This information is often on the back of the speaker.) Alternatively, you may connect speakers of nominal impedance between 4 and 8 ohms to any or all of the speaker terminals. In this case, be sure to set the value to "SP 4Ω/6Ω"even if you connect just one speaker of nominal impedance between 4 and 8 ohms.

Changing the Angles

DVD

If various angles (multi-angles) for a scene are recorded on a DVD, you can change the viewing angle.
For example, while playing a scene of a train in motion, you can display the view from either the front of the train, the left window of the train, or from the right window without having the train's movement interrupted.

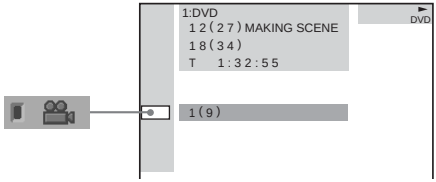


1 **Press DVD DISPLAY during playback.**

The Control Menu appears.

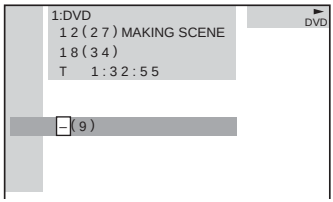
2 **Press ↑/↓ to select (ANGLE).**

The angle number appears.
The number in parentheses indicates the total number of angles. The "ANGLE" indicator lights up in green when angles are recorded on the disc.



3 **Press ENTER.**

The angle number changes to "-."



4 **Select the angle number using ↑/↓ or NUM and Cursor key, then press ENTER.**

The angle is changed to the selected angle.

To enter the number

Press NUM and move Cursor key until the number you want to enter appears in the remote's display. Then push Cursor key.

To turn off the Control Menu

Press DVD DISPLAY.

Note

Depending on the DVD, you may not be able to change the angles, even if multi-angles are recorded on the DVD.

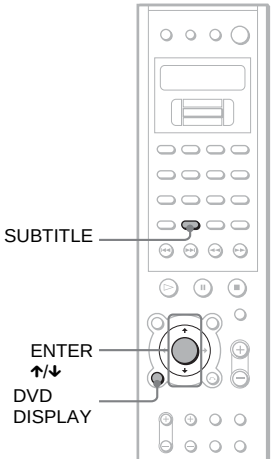
Tip

You can select the angle directly by pressing ANGLE. Each time you press the button, the angle changes.

Displaying Subtitles

DVD

If subtitles are recorded on a disc, you can turn the subtitles on or off while playing. If multilingual subtitles are recorded on the disc, you can change the subtitle language while playing, or turn the subtitles on or off whenever you want. You can select the language you want to practice, for example, turn on the subtitles for better understanding.

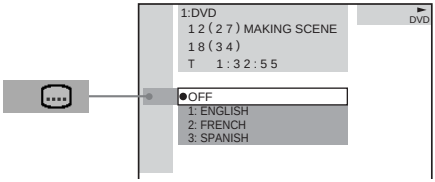


1 **Press DVD DISPLAY during playback.**

The Control Menu appears.

2 **Press ↑/↓ to select (SUBTITLE), then press ENTER.**

The options for SUBTITLE appear.



3 **Press ↑/↓ to select the language.**

Depending on the DVD, the choice of language varies.

When 4 digits are displayed, they indicate the language code. Refer to the language code list on page 93 to see which language the code represents.

4 **Press ENTER.**

To cancel the SUBTITLE setting

Select “OFF” in Step 3.

To turn off the Control Menu

Press DVD DISPLAY.

Note

Depending on the DVD, you may not be able to change the subtitles, even if multilingual subtitles are recorded on it.

Tip

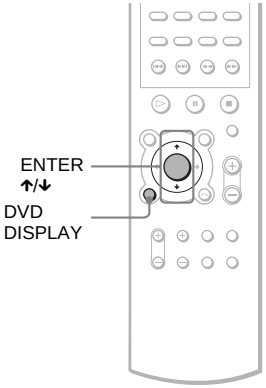
You can select SUBTITLE directly by pressing SUBTITLE. Each time you press the button, the item changes.

Adjusting the Playback Picture

(PICTURE MODE)

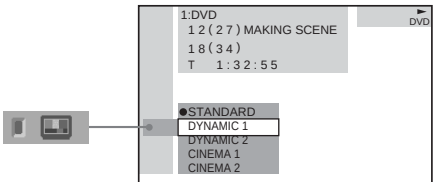
DVD VIDEO CD JPEG

You can adjust the video signal of the DVD, VIDEO CD or JPEG from the receiver to obtain the picture quality you want. Choose the setting that best suits the program you are watching.



1 **In stop mode, press DVD DISPLAY.**

The Control Menu appears.



2 **Press ↑/↓ to select (PICTURE MODE), then press ENTER.**

The options for PICTURE MODE appear.

- STANDARD: Displays a standard picture.
- DYNAMIC 1: Produces a bold dynamic picture by increasing the picture contrast and the color intensity.
- DYNAMIC 2: Produces a more dynamic picture than DYNAMIC 1 by further increasing the picture contrast and the color intensity.
- CINEMA 1: Enhances detail in dark areas by increasing the black level.
- CINEMA 2: Bright colors become brighter and dark colors become richer, and color contrast is increased.

3 **Select the PICTURE MODE you want using ↑/↓, then press ENTER.**

To turn off the Control Menu

Press DVD DISPLAY.

Tip

When you watch a movie, “CINEMA 1” or “CINEMA 2” is recommended.

Note

The setting you select in PICTURE MODE is reflected in all screen displays.

Locking Discs

(CUSTOM PARENTAL CONTROL, PARENTAL CONTROL)

DVD VIDEO CD SA-CD CD MP3 JPEG

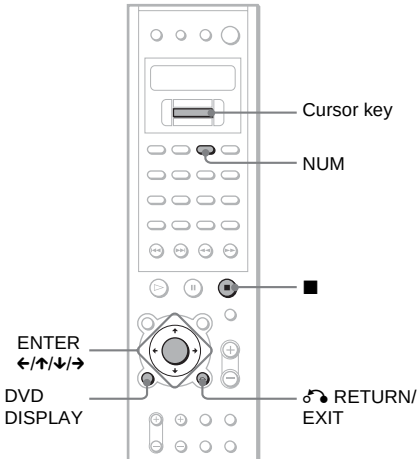
You can set two kinds of playback restrictions for a disc.

- Custom Parental Control
  You can set the playback restrictions so that the receiver will not play inappropriate discs.
- Parental Control
  Playback of some DVDs can be limited according to a predetermined level, such as the age of the viewer.

The same password is used for both Parental Control and Custom Parental Control.

Custom Parental Control

You can set the same Custom Parental Control password for up to 25 discs. If you set a 26th disc, the playback restriction of the disc for which you first set the password is cancelled.



To enter a 4-digit password using NUM and Cursor key

Press NUM and select the number using Cursor key, then push Cursor key.

1 **Insert the disc you want to lock.**

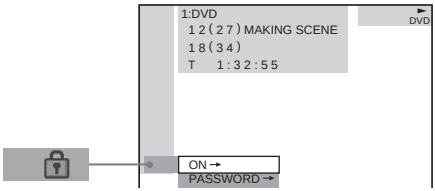
If the disc is playing, press ■ to stop playback.

2 **In stop mode, press DVD DISPLAY.**

The Control Menu appears.

3 **Press ↑/↓ to select (CUSTOM PARENTAL CONTROL), then press ENTER.**

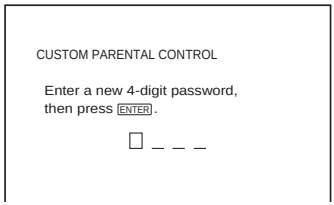
"CUSTOM PARENTAL CONTROL" is selected.



4 **Press ↑/↓ to select "ON →," then press ENTER.**

■ If you have not entered a password yet

The display for registering a new password appears.

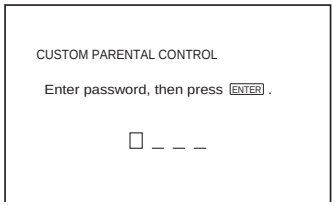


Enter a 4-digit password by using NUM and Cursor key, then press ENTER.

The display for confirming the password appears.

■ If you have already registered a password

The display for entering the password appears.



continued

5 **Enter your 4-digit password by using NUM and Cursor key, then press ENTER.**

"Custom parental control is set." appears and the screen returns to the Control Menu display.

If you make a mistake entering your password

Press ← before you press ENTER and input the correct number.

If you make a mistake

Press ↩ RETURN/EXIT, then start from Step 3 again.

To turn off the Control Menu

Press DVD DISPLAY.

To turn off the Custom Parental Control function

1 In Step 4, select "OFF →," then press ENTER.

2 Enter your 4-digit password using NUM and Cursor key, then press ENTER.

To change the password

1 In Step 4, press ↑/↓ to select "PASSWORD →," then press ENTER.
The display for entering the password appears.

2 Enter your 4-digit password using NUM and Cursor key, then press ENTER.

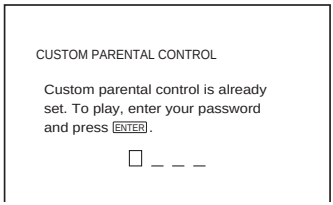
3 Enter a new 4-digit password using NUM and Cursor key, then press ENTER.

4 To confirm your password, re-enter it using NUM and Cursor key, then press ENTER.

Playing the disc for which Custom Parental Control is set

1 **Insert the disc for which Custom Parental Control is set.**

The CUSTOM PARENTAL CONTROL display appears.



2 **Enter your 4-digit password using NUM and Cursor key, then press ENTER.**

The receiver is ready for playback.

Notes

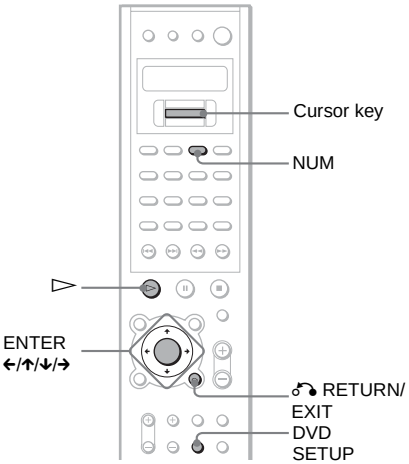
- When you change the layer or area in a Super Audio CD which has Custom Parental Control set, the display for entering the password may appear.
- When you set the Custom Parental Control password for a Hybrid Super Audio CD, custom Parental Control setting only works for the current layer.

Tip

If you forget your password, enter the 6-digit number "199703" using NUM and Cursor key when the CUSTOM PARENTAL CONTROL display asks you for your password, then press ENTER. The display will ask you to enter a new 4-digit password.

Limiting playback for children (Parental Control) (DVD only)

Playback of some DVDs can be limited according to a predetermined level, such as the age of the viewer. The “Parental Control” function allows you to set a playback limitation level.
A scene that is limited is not played, or it is replaced by a different scene.



To enter a 4-digit password using NUM and Cursor key

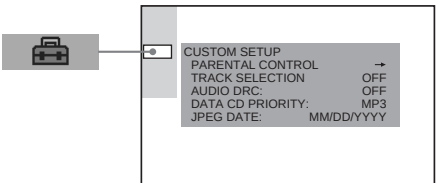
Press NUM and select the number using Cursor key, then push Cursor key.

1 **In stop mode, press DVD SETUP.**

The Setup Display appears.

2 **Press ↑/↓ to select “CUSTOM SETUP,” then press ENTER.**

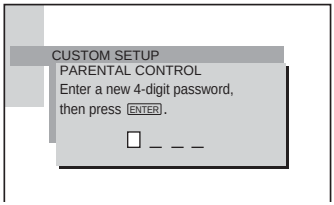
“CUSTOM SETUP” is displayed.



3 **Press ↑/↓ to select “PARENTAL CONTROL →,” then press ENTER.**

■ If you have not entered a password

The display for registering a new password appears.

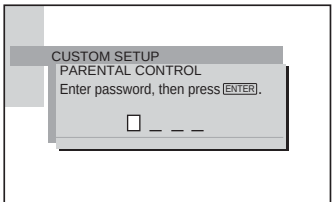


Enter a 4-digit password using NUM and Cursor key, then press ENTER.

The display for confirming the password appears.

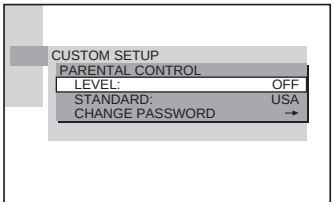
■ When you have already registered a password

The display for entering the password appears.



4 **Enter your password using NUM and Cursor key, then press ENTER.**

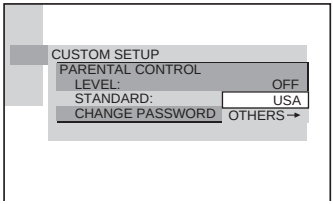
The display for setting the playback limitation level and changing the password appears.



continued

5 **Press ↑/↓ to select "STANDARD," then press ENTER.**

The selection items for "STANDARD" are displayed.



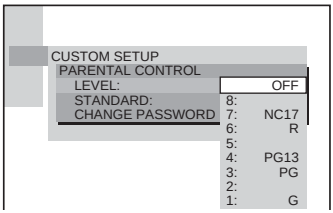
6 **Press ↑/↓ to select a geographic area as the playback limitation level, then press ENTER.**

The area is selected.

If you select "OTHERS →," select and enter the standard code in the table on page 61 using NUM and Cursor key.

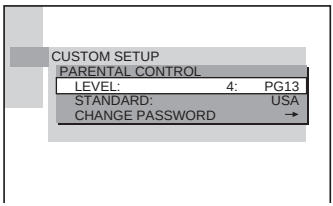
7 **Press ↑/↓ to select "LEVEL," then press ENTER.**

The selection items for "LEVEL" are displayed.



8 **Select the level you want using ↑/↓, then press ENTER.**

The Parental Control setting is complete.



The lower the value, the more strict the limitation.

If you make a mistake

Press ↩ RETURN/EXIT to go back to the previous screen.

To turn off the Setup Display

Press DVD SETUP.

To turn off the Parental Control function and play the DVD after entering your password

Set "LEVEL" to "OFF" in Step 8.

To change the password

1 In Step 5, select "CHANGE PASSWORD →" using ↓, then press ENTER.
The display for entering the password appears.

2 Follow Step 3 to enter a new password.

Playing the disc for which Parental Control is set

1 Insert the disc and press ▷.

The PARENTAL CONTROL display appears.

2 Enter your 4-digit password using NUM and Cursor key, then press ENTER.

The receiver starts playback.

Notes

- If you play a DVD which does not have the Parental Control function, playback cannot be limited on this receiver.
- Depending on the DVD, you may be asked to change the parental control level while playing the disc. In this case, enter your password, then change the level. If the Resume Play mode is cancelled, the level returns to the original level.

Tip

If you forget your password, remove the disc and repeat Step 1 to 3 of "Limiting playback for children." When you are asked to enter your password, enter "199703" using NUM and Cursor key, then press ENTER. The display will ask you to enter a new 4-digit password. After you enter a new 4-digit password in Step 3, replace the disc in the receiver and press ▷. When the PARENTAL CONTROL display appears, enter your new password.

Area Code

Standard	Code number
Argentina	2044
Australia	2047
Austria	2046
Belgium	2057
Brazil	2070
Canada	2079
Chile	2090
China	2092
Denmark	2115
Finland	2165
France	2174
Germany	2109
Hong Kong	2219
India	2248
Indonesia	2238
Italy	2254
Japan	2276
Korea	2304
Malaysia	2363
Mexico	2362
Netherlands	2376
New Zealand	2390
Norway	2379
Pakistan	2427
Philippines	2424
Portugal	2436
Russia	2489
Singapore	2501
Spain	2149
Sweden	2499
Switzerland	2086
Taiwan	2543
Thailand	2528
United Kingdom	2184

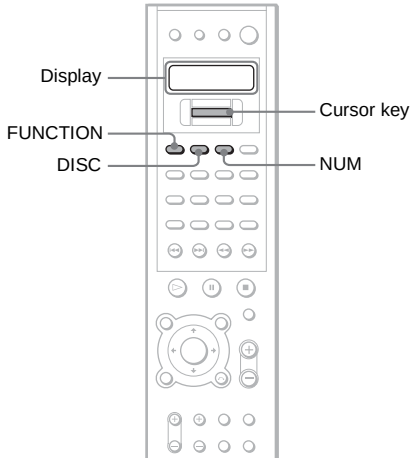
Other Operations

Using the Remote

You can operate the receiver and other units with the remote. A display shows the current unit being operated. With Cursor key, you can easily select a function, disc, or number.

About the remote's display

The remote's display shows the unit being operated. It also lights up when you press Cursor key or buttons when the unit is operated.



To select the units you want to operate.

Press FUNCTION and then move Cursor key until the desired source appears in the remote's display. Push Cursor key when the desired source appears.
Each time you move Cursor key, the source changes as follows.
DVD → VIDEO1 → VIDEO2 → TV/SAT → MD/DAT → TUNER → M1 → M2

Notes

- When you operate the receiver, select "DVD," "TUNER," "M1," or "M2."
- To operate a TV, VCR, satellite receiver, or other unit with the remote, you need to set the manufacturer code for each unit. To set manufacturer codes, see "Controlling Other Units with the Supplied Remote" on page 65.

Tip

You can also operate the TV with the remote in any selection. For details of TV operation, see "Controlling TVs with the remote" on page 65.

To select a disc by using the remote's display

Press DISC and then move Cursor key until the disc you want appears in the remote's display. Push Cursor key when the desired disc appears. Each time you move Cursor key, the remote's display changes to "DISC1 -DISC5" or "D SKIP."

To enter the number

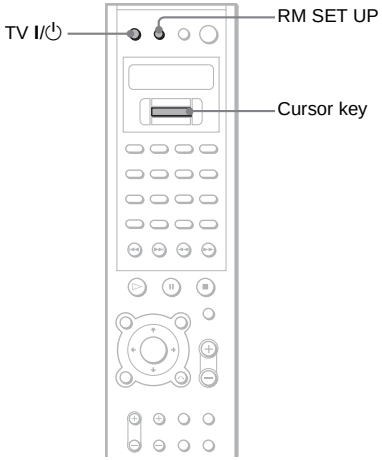
Press NUM and move Cursor key until the number you want to enter appears in the remote's display. Then push Cursor key.

Tips

- When you enter the number more than double-digit, push Cursor key each time you enter the number.
- If you select "TV/SAT" as the function for the receiver, you can enter a 3-digit number on the remote's display.

Perform operations on another unit with the supplied remote with one button push (Macro Function)

Perform operations on another unit with the supplied remote with one button push by using the macro function.
You can register two macro functions (M1 or M2), each macro having up to 10 steps.



1 **Press RM SETUP and TV I/⏻ simultaneously.**

The RM SET UP indicator lights up and "LEARN" appears in the remote's display.

2 **Select "M1" or "M2" using Cursor key, and then push Cursor key.**

"M1-1" or "M2-1" appears in the remote's display.

Each macro can have up to 10 steps.

3 **Select the macro steps you want to register using Cursor key.**

If you want to register 5 steps in "M1," select "M1-5" in the remote's display using Cursor key.

4 **Place face to face the sensors of the supplied remote and the remote of the unit you want to register a remote function of, and then push Cursor key.**

5 **Press the buttons you want to register for the other unit's operation(s), and send the code to the supplied remote.**

The RM SET UP indicator blinks on and off while sending the code from the remote of the other unit.

■ When registration is completed
The RM SET UP indicator flashes twice slowly.

■ When registration is incomplete
The RM SET UP indicator flashes 4 times quickly, "Error" appears in the remote's display, and then returns to step 5.

■ If memory is full
The RM SET UP indicator flashes 8 times quickly and "Full" appears in the remote's display. Then the remote returns to normal mode.

If you move Cursor key after step 4

Change the step number of macro.

If you push Cursor key after step 4

"WAIT" appears in the remote's display and the remote returns to normal mode.

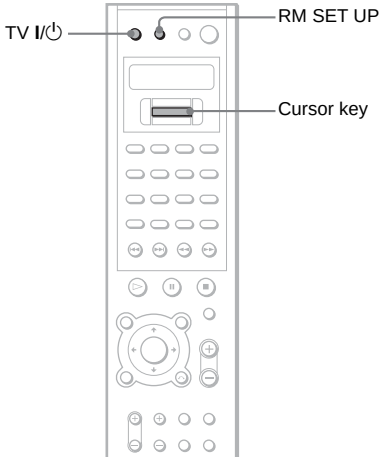
If you want to clear the macro you registered

After step 4, push Cursor key more than 2 seconds before send the code. "CLEAR" appears in the remote's display and the macro you registered is cleared.

continued

Register the other unit's remote function (Learn Function)

You can register additional functions to the supplied remote button from the other unit's remote.
Even though the supplied remote may not have some functions or buttons to operate the VCR or other unit, you can use additional functions with this function.



1 **Press RM SETUP and TV I/⏻ simultaneously.**

The RM SET UP indicator lights up and "LEARN" appears in the remote's display.

2 **Select "VIDEO1," "VIDEO2," "TV/SAT," or "MD/DAT" you want to register using Cursor key, and then push Cursor key. When you want to register the TV function, press TV I/⏻.**

"VIDEO1," "VIDEO2," "TV/SAT," "MD/DAT," or "TV KEY" appears in the remote's display and the RM SET UP indicator lights up.

3 **Place face to face the sensors of the supplied remote and the remote to which you want to register a remote function.**

4 **Press the button where you want to register on the supplied remote.**

The RM SET UP indicator blinks on and off if you press the button which can be registered on the supplied remote.

5 **Press the button you want to register an operation for the other unit and send the code to the supplied remote.**

The RM SET UP indicator blinks on and off while sending the code from the remote of the other unit.

■ When registration is completed
The RM SET UP indicator flashes twice slowly.

■ When registration is incomplete
The RM SET UP indicator flashes 4 times quickly, "Error" appears in the remote's display, and then returns to step 5.

■ If memory is full
The RM SET UP indicator flashes 8 times quickly and "Full" appears in the remote's display. Then the remote returns to normal mode.

If you press TV/⏻ before step 5

When you press TV/⏻ in step 2, the operation returns to step 4 and you can change the button you want to register.
When you select the function using Cursor key in step 2, the operation returns to step 5 and you just change the other unit's code.

If you want to clear the function you registered

Before step 5, push TV/⏻ for more than 2 seconds before sending the code. "CLEAR" appears in the remote's display and the function you registered is cleared.

Notes

- Depending on the function code, you cannot register the function to the supplied remote.
- Some buttons on the supplied remote are not available with this function.

Tip

You can register a function to each number on the remote. Press NUM and select a number instead of pressing the button in step 5.

Controlling Other Units with the Supplied Remote

By adjusting the remote signal, you can control your TV, satellite receiver or VCR with the supplied remote.

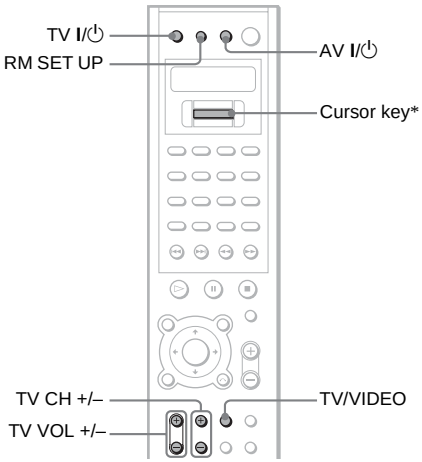
Notes

- If you enter a new code number, the code number previously entered will be erased.
- When you replace the batteries of the remote, the code number may reset itself to the default (SONY) setting. Reset the appropriate code number.

Tip

You can set the code number for your TV or satellite receiver separately.

Controlling TVs with the remote



1 Press RM SET UP and AV I/⏻ simultaneously.

The RM SET UP indicator lights up and "IR SET" appears in the remote's display.

2 Press TV I/⏻.

The RM SET UP indicator flashes once and "TV KEY" appears in the remote's display.

3 Enter your TV manufacturer code (see the table) using Cursor key.

Each time you select the number, push Cursor key.

4 Push Cursor key after you have selected the 3-digit code.

When registration is completed, the RM SET UP indicator flashes twice.

If registration is incomplete, the RM SET UP indicator rapidly flashes 4 times.

* Use Cursor key only to enter the code number of controllable TVs.

Code numbers of controllable TVs

If more than one code number is listed, try entering them one at a time until you find the one that works with your TV.

Manufacturer	Code number
SONY	501,502
AIWA	501,502
DAEWOO	504,505,506,507,515,544
FISHER	508
GOLDSTAR	503,511,512,515,534,544
GRUNDIG	517,534
HITACHI	513,514,515,544
ITT/NOKIA	521,522
JVC	516
MAGNAVOX	503,518,544
MITSUBISHI/MGA	503,519,544
NEC	503,520,544
PANASONIC	509,524
PHILIPS	515,518
PIONEER	509,525,526,540
RCA/PROSCAN	510,527,528,529,544
SAMSUNG	503,515,531,532,533,534,544
SANYO	508,545,546,547
SHARP	535
TELEFUNKEN	523,536,537,538
THOMSON	530,537,539
TOSHIBA	535,540,541
ZENITH	542,543

continued

Controlling the TV

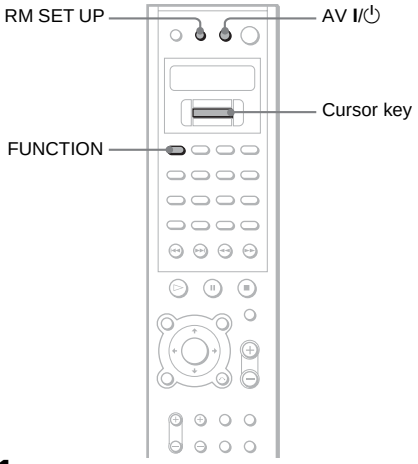
You can control your TV using the buttons below.

By pressing	You can
TV I/⏻	Turn the TV on or off.
TV/VIDEO	Switch the TV's input source between the TV and other input sources.
TV VOL +/–	adjust the TV volume.
TV CH +/–	change the TV channel.

Note

Depending on the TV, you may not be able to control your TV or to use some of the buttons above.

Controlling satellite receivers with the remote



1 Press RM SET UP and AV I/⏻ simultaneously.

The RM SET UP indicator lights up and "IR SET" appears in the remote's display.

2 Select "TV/SAT" using Cursor key, and then push Cursor key.

3 Enter your Satellite receiver's manufacturer code (see the table) using Cursor key.

4 Push Cursor key after you have selected the 3-digit code.

When registration is completed, the RM SET UP indicator flashes twice.

Code numbers of controllable satellite receivers

If more than one code number is listed, try entering them one at a time until you find the one that works with your satellite receiver.

Manufacturer	Code number
SONY	801,802,803,804
JERROLD/G.I.	806,807,808,809,810,811, 812,813,814
PANASONIC	818
RCA	805,819
S.ATLANTA	815,816,817

Controlling the satellite receiver

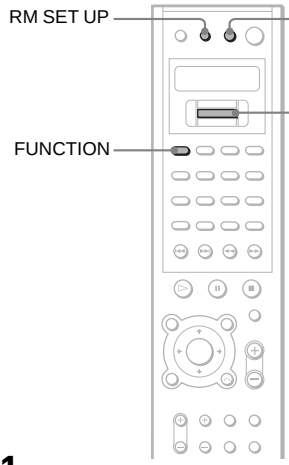
Press FUNCTION and select "TV/SAT" using Cursor key, and then push Cursor key.
Sources that can be controlled by the remote change depending on the setting of TV/SAT.
You can control your satellite receiver using the buttons below.

By pressing	You can
AV I/⏻	Turn the satellite receiver on or off.
JUMP	Jump
NUM and Cursor key	Select a channel.
ENTER	Confirm the selected channel.
AUDIO	Change the audio.
CH +/–	Change channels.
TOP MENU/ GUIDE	Display the program guide.
AV MENU	Display the menu.
DVD DISPLAY	Turn the display on or off.
↩ RETURN/EXIT	Return to the previous display in the program guide or menu.
←/↑/↓/→/ ENTER	Select the item in the program guide or menu.

Notes

- Depending on the satellite receiver, you may not be able to control your satellite receiver or to use some of the buttons above.
- To operate a DVD player, press FUNCTION and select "DVD" using Cursor key, and then push Cursor key to change the mode of the receiver to DVD.

Controlling the VCR with the remote



1 Press RM SET UP and AV I/⏻ simultaneously.

The RM SET UP indicator lights up and "IR SET" appears in the remote's display.

2 Select "VIDEO1" or "VIDEO2" using Cursor key, and then push Cursor key.

3 Enter your VCR's manufacturer code (see the table) using Cursor key.

4 Push Cursor key after you have selected the 3-digit code.

When the registration is completed, the RM SET UP indicator flashes twice.

Code numbers of controllable VCR

Press FUNCTION and select "VIDEO1" or "VIDEO2" using Cursor key.
If more than one code number is listed, try entering them one at a time until you find the one that works with your VCR.

Manufacturer	Code number
SONY	701,702,703,704,705,706
AIWA	710,750,757,758
AKAI	707,708,709,759
BLAUPUNKT	740
EMERSON	711,712,713,714,715,716,750
FISHER	717,718,719,720
GENERAL ELECTRIC	721,722,730
GOLDSTAR	723,753
GRUNDIG	724
HITACHI	722,725,729,741
ITT/NOKIA	717
JVC	726,727,728,736
MAGNAVOX	730,731,738
MITSUBISHI/MGA	732,733,734,735
NEC	736‘
PANASONIC	729,730,737,738,739,740
PHILIPS	729,730,731
PIONEER	729
RCA/PROSCAN	722,729,730,731,741,747
SAMSUNG	742,743,744,745
SANYO	717,720,746
SHARP	748,749
TELEFUNKEN	751,752
TOSHIBA	747,755,756
ZENITH	754

Controlling the VCR

Press FUNCTION and select "VIDEO1" or "VIDEO2" using Cursor key, and then push Cursor key. Sources that can be controlled by the remote change depending on the setting of VIDEO1 or VIDEO2.
You can control your VCR using the buttons below.

By pressing	You can
AV I/⏻	Turn the VCR on or off.
NUM and Cursor key	Select a channel.
ENTER	Confirm the selected channel.
AUDIO	Change the audio.
CH –/+	Change VCR channels.
◀◀/▶▶	Fast Forward or fast Reverse.
▷	Play.
▮▮	Pause.
■	Stop.
AV MENU	Display the menu.
DVD DISPLAY	The display is on or off.
←/↑/↓/→/ ENTER	Select the item in the program guide or menu.

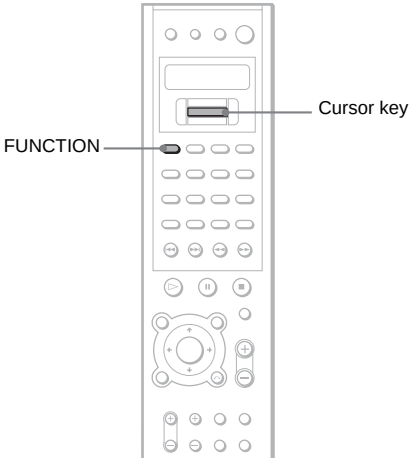
continued

Notes

- Depending on the VCR, you may not be able to control your VCR, or use some of the buttons above.
- To operate a DVD player, press FUNCTION and select “DVD” using Cursor key, and then push Cursor key to change the mode of the receiver to DVD.

Using Other Units

You can use VCRs or other units connected to the VIDEO1, TV/SAT, or VIDEO2 jacks. Refer to the operation manual supplied with the other unit for further information on its operation.



Press FUNCTION and select “VIDEO1,” “VIDEO2,” “TV/SAT,” or “MD/DAT” using Cursor key, and then push Cursor key.

When you push Cursor key after selecting the unit you want to use, the mode of the receiver changes and the currently selected unit’s name appears in the front panel display.

Tip

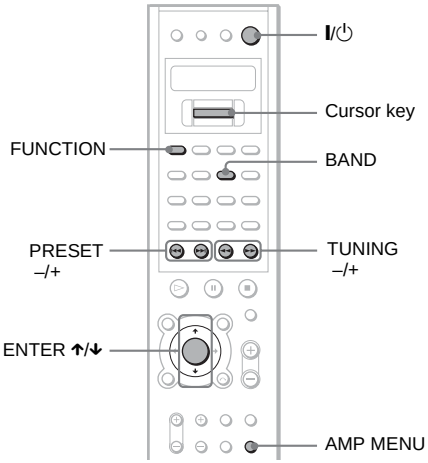
You can also select the mode using FUNCTION –/+ on the receiver. Each time you press FUNCTION –/+, the mode of the receiver changes in the following sequence.

DVD → VIDEO1 → VIDEO2 → TV/SAT → MD/DAT → TUNER → DVD…

Enjoying the Radio

Presetting Radio Stations

You can preset 20 stations for FM and 10 stations for AM. Before tuning, make sure to turn down the volume to minimum.



1 Press FUNCTION and select "TUNER" using Cursor key, and then push Cursor key.

2 Press BAND repeatedly until the band you want appears in the front panel display.

Each time you press BAND, the band toggles between AM and FM.

3 Press and hold TUNING + or –, then release.

Scanning stops when the receiver tunes in a station. "TUNED" and "ST" (for stereo program) appear in the front panel display.

4 Press AMP MENU.

5 Press ↑ or ↓ repeatedly until "MEMORY" appears in the front panel display.

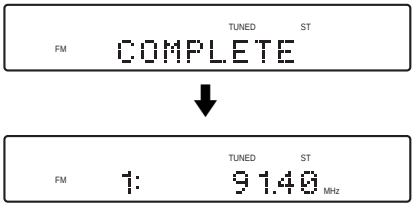
6 Press ENTER.

A preset number appears in the front panel display. The preset number blinks on and off.

7 Press PRESET + or – to select the preset number you want.

8 Press ENTER.

The station is stored.



9 Repeat 1 to 8 to store other stations.

To change the preset number

Restart from step 1.

To change the AM tuning interval

The AM tuning interval can be set to either 9 kHz or 10 kHz (default).

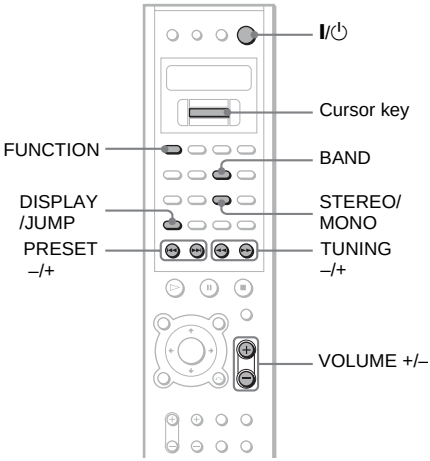
To change the AM tuning interval, turn off the receiver by pressing I/⏻ on the remote. While holding down ■ (on the receiver), press I/⏻ on the remote to turn on the power. If you change the interval, the AM preset stations will be erased.

To reset the interval, repeat the same procedure.

continued

Listening to the Radio

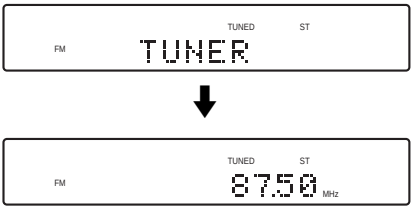
Preset radio stations in the receiver's memory first (see "Presetting Radio Stations" on page 69).



1 Press FUNCTION and select "TUNER" using Cursor key, and then push Cursor key.

2 Press BAND repeatedly until FM or AM appears in the front panel display.

The last received station is tuned in.



3 Press PRESET + or – repeatedly to select the preset station you want.

Each time you press the button, the receiver tunes in one preset station.
Every time you press BAND, the band toggles between AM or FM.

4 Adjust the volume by pressing VOLUME +/–.

To turn off the radio

Press I/⏻ on the remote or POWER on the receiver.

To listen to non-preset radio stations

Use manual or automatic tuning in Step 2.
For manual tuning, press TUNING + or – on the remote repeatedly.
For automatic tuning, press and hold TUNING + or – on the remote.

Tips

- If an FM program is noisy, press STEREO/MONO on the remote so that "MONO" appears in the front panel display. There will be no stereo effect, but the reception will improve. Press the button again to restore the stereo effect.
- To improve reception, reorient the supplied antennas.

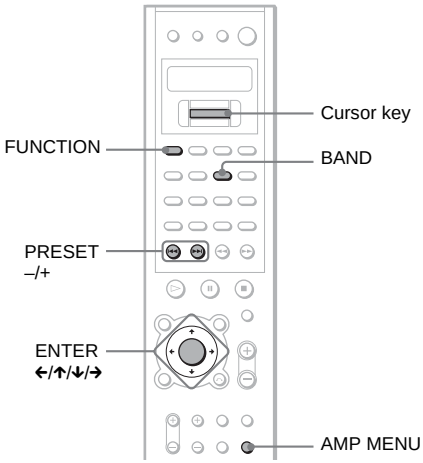
To check the frequency

Press DISPLAY/JUMP repeatedly.
Each time you press DISPLAY/JUMP, the front panel display changes as follows:
index name of the station* → frequency → index name of the station...

* This is displayed if you have entered a name for a preset station, see "Naming Preset Stations" (page 71).

Naming Preset Stations

You can enter a name of up to 8 characters for preset stations. These names (for example, “XYZ”) appear in the receiver’s front panel display when a station is selected.
Note that no more than one name can be entered for each preset station.



1 **Press FUNCTION and select “TUNER” using Cursor key, and then push Cursor key.**

2 **Press BAND repeatedly until FM or AM appears in the front panel display.**

The last station you received is tuned in. Each time you press BAND, the band toggles between AM or FM.

3 **Press PRESET + or – repeatedly to select the preset station you want to create an index name for.**

4 **Press AMP MENU.**

5 **Press ↑ or ↓ repeatedly until “NAME INPUT” appears.**

6 **Press ENTER.**

7 **Create an index name by using ←/↑/↓/→:**

Press ↑/↓ to select a character, then press → to move the cursor to the next position.

If you make a mistake

Press ← or → repeatedly until the character to be changed flashes, then press ↑/↓ to select the desired character.

8 **Press ENTER.**

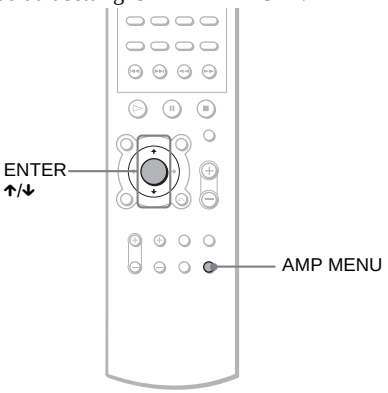
The station name is stored.

Note

You cannot input the name during manual tuning. (“Not in Use” appears in the front panel display.)

Changing the Brightness of the Front Panel

There are four levels of brightness for the front panel display.
Adjust the brightness according to your room's lighting conditions.
The default setting is "DIMMER OFF."



1 **Press AMP MENU.**

Set the function of the remote to DVD, and then press AMP MENU.

2 **Press ↑/↓ repeatedly until "DIMMER" appears in the front panel display, then press ENTER.**

3 **Press ↑/↓ to change the brightness, then press ENTER or AMP MENU.**

■ DIMMER OFF
The front panel display, the MULTI CHANNEL DECODING indicator, and DISC indicators are brightly lit.

■ DIMMER 1
The front panel display, the MULTI CHANNEL DECODING indicator, and DISC indicators are half lit.

■ DIMMER 2
The front panel display, the MULTI CHANNEL DECODING indicator, and DISC indicators are dimly lit.

■ DISP OFF
Turns off the front panel display, the MULTI CHANNEL DECODING indicator and the DISC indicators.When the receiver accepts an incoming remote signal, it lights for 5 seconds at DIMMER 2 brightness.

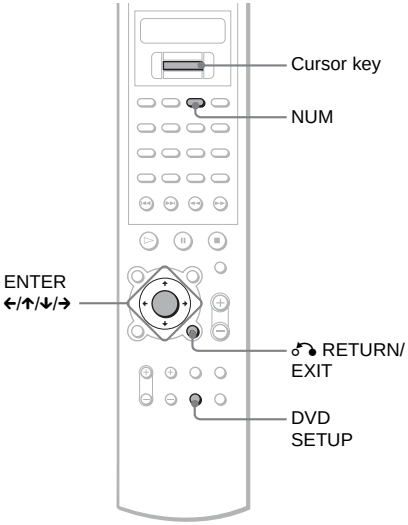
Each time you change the setting, the brightness of the front panel display changes as follows:
DIMMER OFF → DIMMER 1 → DIMMER 2 → DISP OFF → DIMMER OFF…

Using the Setup Display

DVD VIDEO CD SA-CD CD MP3 JPEG

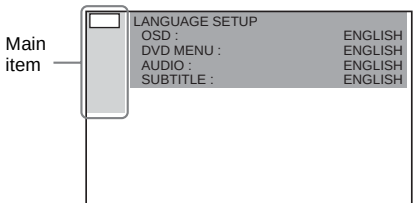
By using the Setup Display, you can make various adjustments to items, such as picture and sound. You can also set the subtitle language and the Setup Display, among other things. For details on each Setup Display item, see page 74-80. For an overall list of Setup Display items, see page 94, 95.

How to use the Setup Display



1 **In stop mode, press DVD SETUP.**

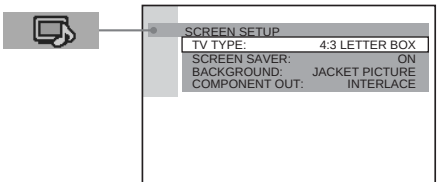
The Setup Display appears.



2 **Press ↑/↓ to select the setup item from the displayed list: "LANGUAGE SETUP," "SCREEN SETUP," "CUSTOM SETUP," "SPEAKER SETUP," and "RESET*." Then press ENTER or →.**

The selected Setup item appears.

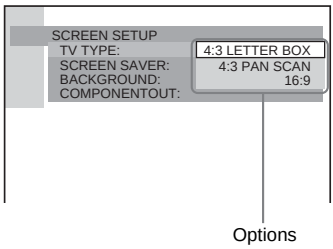
Example: "SCREEN SETUP"



3 **Select an item using ↑/↓, then press ENTER or →.**

The options for the selected item appear.

Example: "TV TYPE"

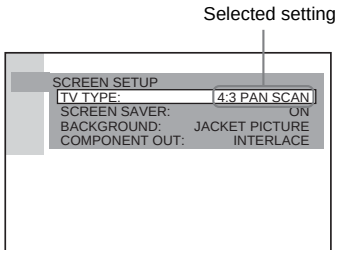


Press ← or RETURN/EXIT to return to setup items.

4 **Select a setting using ↑/↓, then press ENTER.**

The setting is selected and setup is complete.

Example: "4:3 PAN SCAN"



continued

To turn off the Setup Display

Press DVD SETUP.

* When you select “RESET” ⇨◇⇦ in step 2, the following items are returned to the default settings.

• Setup Menu (except for the PARENTAL CONTROL) (page 94, 95)

After you select “RESET” and press ENTER, select “YES” to reset the settings (it takes a few seconds to complete). Select “NO” and press ENTER to cancel. Do not press POWER on the receiver, when resetting the receiver.

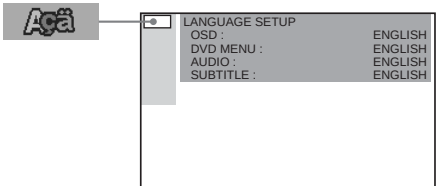
Setting the Display or Sound Track Language

(LANGUAGE SETUP)

DVD VIDEO CD SA-CD CD MP3 JPEG

“LANGUAGE SETUP” allows you to set various languages for the on-screen display or sound track.

Select “LANGUAGE SETUP” in the Setup Display. For details on using the display, see “Using the Setup Display” (page 73).



■ OSD (On-Screen Display)

Selects the display language on the screen.
Selects the language from the displayed list.

■ DVD MENU (DVD only)

Selects the desired language for the DVD menu.

■ AUDIO (DVD only)

Selects the language of the sound track.
Selects the language from the displayed list.

■ SUBTITLE (DVD only)

Selects the language of the subtitle.
Selects the language from the displayed list.

Note

If you select a language that is not recorded on the DVD, one of the recorded languages will be automatically selected (except for “OSD”).

Tip

If you select “OTHERS →” in “DVD MENU,” “SUBTITLE,” or “AUDIO,” select and enter the language code from the list using NUM and Cursor key, and then press ENTER (page 93).
After you have made a selection, the language code (4 digits) is displayed the next time you select “OTHERS →.”

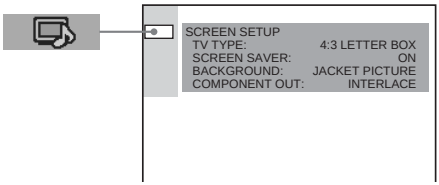
Settings for the Display

(SCREEN SETUP)

DVD VIDEO CD SA-CD CD MP3 JPEG

Choose settings according to the TV to be connected.

Select “SCREEN SETUP” in the Setup Display. For details on using the display, see “Using the Setup Display” (page 73).
The default settings are underlined.



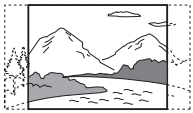
■ TV TYPE (DVD only)

Selects the aspect ratio of the connected TV (4:3 standard or wide).

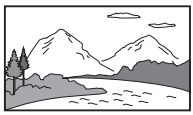
4:3 LETTER BOX	Select this if you connect a 4:3 screen TV. Displays a wide picture with bands on the upper and lower portions of the screen.
4:3 PAN SCAN	Select this if you connect a 4:3 screen TV. Automatically displays the wide picture on the entire screen and cuts off the portions that do not fit.
16:9	Select this if you connect a wide-screen TV or a TV with a wide mode function.

4:3 LETTER BOX

4:3 PAN SCAN



16:9



Note

Depending on the DVD, “4:3 LETTER BOX” may be selected automatically instead of “4:3 PAN SCAN” or vice versa.

■ SCREEN SAVER

Turns the screen saver on and off so that the screen saver image appears when you leave the receiver in pause or stop mode for 15 minutes, or when you playback a CD, a Super Audio CD, an MP3 or a JPEG file (except during the slide show) for more than 15 minutes. The screen saver will help prevent your display device from becoming damaged (afterimage). Press ▷ to turn off the screen saver.

ON	Turns on the screen saver.
OFF	Turns off the screen saver.

■ BACKGROUND

Selects the background color or picture on the TV screen in stop mode or while playing a CD.

JACKET PICTURE	The jacket picture (still picture) appears in the background, but only if a jacket picture is already recorded on the disc (CD-EXTRA, etc.). If the disc does not contain a jacket picture, the “GRAPHICS” picture appears.
GRAPHICS	A preset picture stored in the receiver appears in the background.
BLUE	The background color is blue.
BLACK	The background color is black.

continued

■ COMPONENT OUT

This will change the type of signal output from the COMPONENT VIDEO OUT jacks on the receiver. See page 86, 87 for more information about the different types.

INTERLACE	Select this when you are connected to a standard (interlace format) TV.
PROGRESSIVE	Select this when you have a TV that can accept progressive signals.

Note

If you set “COMPONENT OUT” in “SCREEN SETUP” to “PROGRESSIVE” even though your TV cannot accept the signal in progressive format, press and hold ■ and I◄◄ simultaneously for a few seconds. The “COMPONENT OUT” setting returns to “INTERLACE.”

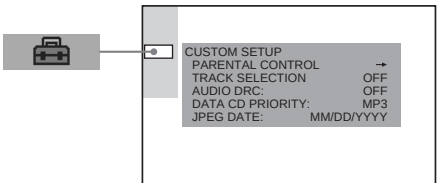
Custom Settings

(CUSTOM SETUP)

DVD MP3 JPEG

Allows setting up Parental Control and other settings.

Select “CUSTOM SETUP” in the Setup Display. For details on using the display, see “Using the Setup Display” (page 73).
The default settings are underlined.



■ PARENTAL CONTROL → (DVD only)

Sets a password and playback limitation level for DVDs with playback limitation for children. For details, see “Limiting playback for children (Parental Control)” (page 59).

■ TRACK SELECTION (DVD only)

Gives the sound track having the highest number of channels priority when you play a DVD on which multiple audio formats (PCM, MPEG audio, DTS, or Dolby Digital format) are recorded.

OFF	No priority given.
AUTO	Priority given.

Notes

- When you set the item to “AUTO,” the language may change. The “TRACK SELECTION” setting has higher priority than the “AUDIO” settings in “LANGUAGE SETUP” (page 74).
- If PCM, DTS, MPEG audio, and Dolby Digital sound tracks have the same number of channels, the receiver selects PCM, DTS, Dolby Digital, and MPEG audio sound tracks in this order.
- Depending on the DVD, the audio channel with priority may be predetermined. In this case, you cannot give priority to the DTS, Dolby Digital, or MPEG audio format by selecting “AUTO.”

■ AUDIO DRC (AUDIO DYNAMIC RANGE COMPRESSION)

Narrows the DYNAMIC range of the sound track.
Useful for watching movies at low volume late at night.

OFF	No compression of DYNAMIC range.
STANDARD	Reproduces the sound track with the kind of DYNAMIC range that the recording engineer intended.
MAX	Narrows the DYNAMIC range fully.

Note

DYNAMIC range compression only applies to Dolby Digital sources.

■ DATA CD PRIORITY (MP3, JPEG only)

Set priority data you want to play, when you play a DATA CD (CD-ROM/CD-R/CD-RW) containing MP3 audio tracks and JPEG image files.

MP3	If an MP3 file exists on a disc, the receiver recognises the disc as an "MP3 Disc." If only JPEG files exist on the disc, the receiver recognises the disc as a "JPEG Disc."
JPEG	If a JPEG file exists on the disc, the receiver recognises the disc as a "JPEG Disc." If only MP3 files exist on the disc, the receiver recognises the disc as an "MP3 Disc."

Notes

- When you play Multi Session CDs, the receiver decides a target to play for the last session or session linked with the last session.
- If you change this setting, reinsert the disc.

■ JPEG DATE

Change the date information order of a JPEG image in the Control Menu.

MM/DD/YYYY
YYYY/MM/DD
DD/MM/YYYY
YYYY/DD/MM

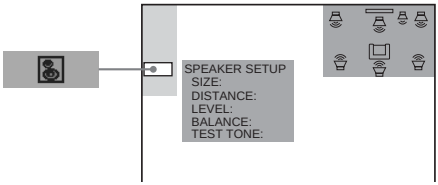
YYYY: Year
MM: Month
DD: Day

Settings for the Speakers

(SPEAKER SETUP)

To obtain the best possible surround sound, set for the size of the speakers you have connected and their distance from your listening position. Then use the test tone to adjust the level and the balance of the speakers to the same level.

Select "SPEAKER SETUP" in the setup display. For details, see "Using the Setup Display" (page 73).
The default settings are underlined.



To return to the default setting when changing a setting

Select the item, then press CLEAR.
Only the selected item is returned to the default setting.

■ SIZE

If you use small speakers, do not connect a center, surround speakers, or surround back speaker, or move the surround speakers, set the parameters for FRONT, CENTER, SURROUND, SURROUND BACK, and SUBWOOFER.

FRONT	LARGE: Normally select this. SMALL: Select this if small speakers are used for the front speaker.
CENTER	LARGE: Normally select this. SMALL: Select this if small speakers are used for the center speaker. NONE: Select this if no center speaker is used.

continued

SURROUND	LARGE (BEHIND, LOW), LARGE (BEHIND, HIGH), LARGE (SIDE, LOW), LARGE (SIDE, HIGH), SMALL (BEHIND, LOW), SMALL (BEHIND, HIGH), SMALL (SIDE, LOW), SMALL (SIDE, HIGH): Specify the size, position, and height to implement the Digital Cinema Surround modes in the sound field (page 49) properly. For details, see "Specifying the surround position and height" as below. NONE: Select this if no surround speaker is used.
SURROUND BACK	LARGE: Normally select this. SMALL: Select this if small speakers are used for the surround back speaker. NONE: Select this if no surround back speaker is used.
SUBWOOFER	YES: Select this if a subwoofer is used. NONE: Select this if no subwoofer is used.

Setting restrictions

Size setup has some restrictions. Some settings are changed automatically.

If "FRONT" is set to "SMALL"

"CENTER," "SURROUND," and "SURROUND BACK" must be set to either "SMALL" or "NONE."

If "SURROUND" is set to either "LARGE" or "SMALL"

"SURROUND BACK" must be set to the same setting or "NONE."

If "SUBWOOFER" is set to "NONE"

"FRONT" must be set to "LARGE."

Notes

- When you select an item, the sound cuts off for a moment.
- Depending on the settings, subwoofer output may be excessive.

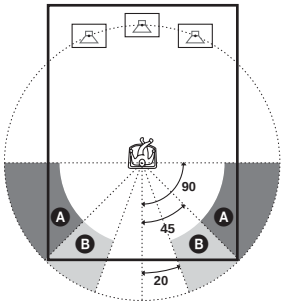
Specifying the surround speaker position and height

If you select anything other than "NONE" in "SURROUND," specify the size, position, and height of the surround speakers.

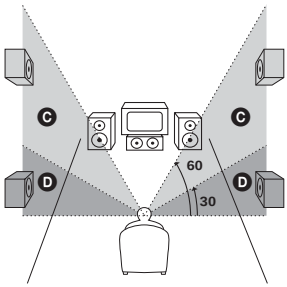
BEHIND (LOW):	Select this if the surround speakers are located in section Ⓑ and Ⓓ.
BEHIND (HIGH):	Select this if the surround speakers are located in section Ⓑ and Ⓒ.
SIDE (LOW):	Select this if the surround speakers are located in section Ⓐ and Ⓓ.
SIDE (HIGH):	Select this if the surround speakers are located in section Ⓐ and Ⓒ.

These parameters are not available when "SURROUND" is set to "NONE."

Position diagram



Height diagram

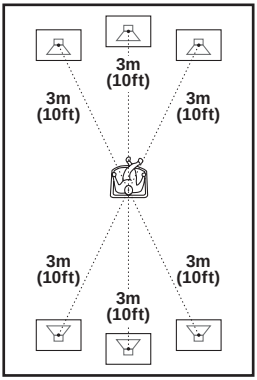


Tip

Surround speaker position and height is designed specifically for CINEMA STUDIO EX mode.

■ DISTANCE

The default distance setting for the speakers in relation to the listening position is shown below.



Be sure to change the value in the Setup Display when you move the speakers.

FRONT **3 m/10 ft**	Front speaker distance from the listening position can be set in 0.3 metre (1 ft) increments from 0.9 to 6.9 metres (3 to 23 ft).
CENTER **3 m/10 ft**	Center speaker distance can be moved up to 1.5 metres (5 ft) forward closer to your listening position from the front speaker position, in 0.3 metre (1 ft) increments.
SURROUND **3 m/10 ft**	Surround speaker distance can be moved up to 4.5 metres (15 ft) closer to your listening position from the front speaker position, in 0.3 metre (1 ft) increments.
SURROUND BACK **3m/10ft**	Surround back speaker distance can be moved up to 4.5 metres (15 ft) closer to your listening position from the front speaker position, in 0.3 metre (1 ft) increments.

Notes

- When you set the distance, the sound cuts off for a moment.
- If all front and surround speakers are not placed at an equal distance from your listening position, set the distance according to the closest speaker.
- Do not place the surround speakers farther away from your listening position than the front speakers.

■ LEVEL

You can vary the level of each speaker as follows. Be sure to set “TEST TONE” to “ON” for easy adjustment.

CENTER **0 dB**	Adjusts the level of the center speaker (–10 dB to +10 dB, 1 dB steps).
SURROUND LEFT 0 dB **SURROUND RIGHT 0 dB**	Adjusts the level of the surround speakers (–10 dB to +10 dB, 1 dB steps).
SURROUND BACK 0 dB	Adjusts the level of the surround back speaker (–10 dB to +10 dB, 1 dB steps).
SUBWOOFER **0 dB**	Adjusts the level of the subwoofer (–10 dB to +10 dB, 1 dB steps).

■ BALANCE

You can vary the balance of the left and right speakers as follows. Be sure to set “TEST TONE” to “ON” for easy adjustment.

FRONT **CENTER**	Adjusts the balance between the front left and right speakers. The center position is shown as “---”. (You can adjust from the center, 6 steps left or right.)

To adjust the volume of all the speakers at one time

Use the VOLUME control on the receiver, or press VOLUME +/– on the remote.

■ TEST TONE

The speakers will emit a test tone to adjust “LEVEL” and “BALANCE.”

OFF	The test tone is not emitted from the speakers.
ON	The test tone is emitted from each speaker in sequence. When “BALANCE” is selected, the test tone is emitted from both left and right speakers simultaneously. When “LEVEL” is selected, the test tone is emitted from only the speaker that you are adjusting.

continued

Adjusting the speaker balance and level by using the test tone

1 Press DVD SETUP in stop mode.

The Setup Display appears.

2 Press ↑ or ↓ repeatedly to select "SPEAKER SETUP," then press ENTER.

3 Press ↑ or ↓ repeatedly to select "TEST TONE," then press ENTER.

4 Press ↑ or ↓ repeatedly to select "ON," then press ENTER.

You will hear the test tone from each speaker in sequence.

5 From your listening position, adjust the value of "BALANCE" and "LEVEL" using ←/↑/↓/→.

When selecting "BALANCE," the test tone is emitted from both left and right speakers simultaneously.

When selecting "LEVEL," the test tone is emitted from only the speaker which you are adjusting.

6 Press ENTER when you have finished making adjustments.

7 Press ↑ or ↓ repeatedly to select "TEST TONE," then press ENTER.

8 Press ↑ or ↓ repeatedly to select "OFF," then press ENTER.

Note

When you adjust the speaker settings, the sound cuts off for a moment.

Tip

To adjust the balance or the level without listening to the test tone, select "BALANCE" or "LEVEL" in step 3 and press ENTER. Then adjust the balance or level using ↑/↓ and press ENTER.

Troubleshooting

If you experience any of the following difficulties while using the receiver, use this troubleshooting guide to help remedy the problem before requesting repairs. Should any problem persist, consult your nearest Sony dealer.

Power

The power is not turned on.

- Check that the AC power cord is connected securely.

Picture

There is no picture.

- The video connecting cords are not connected securely.
- The video connecting cords are damaged.
- The receiver is not connected to the correct TV input jack (page 19).
- The video input on the TV is not set so that you can view pictures from the receiver.
- You have set "COMPONENT OUT" in "SCREEN SETUP" to "PROGRESSIVE" even though your TV cannot accept the signal in progressive format. In this case, press and hold ■ and ⏮ simultaneously for a few seconds. The "COMPONENT OUT" setting returns to "INTERLACE."
- Even if your TV is compatible with progressive format (480p) signals, the image may be affected when you set "COMPONENT OUT" to "PROGRESSIVE." In this case, set "COMPONENT OUT" to "INTERLACE."

Picture noise appears.

- The disc is dirty or flawed.
- If the picture output from your receiver goes through your VCR to get to your TV, the copy-protection signal applied to some DVD programs could affect picture quality. If you still experience problems even when you connect your receiver directly to your TV, try connecting your receiver to your TV's S video input (page 19).

Even though you set the aspect ratio in "TV TYPE" of "SCREEN SETUP," the picture does not fill the screen.

- The aspect ratio on the disc is fixed.

The picture is black and white.

- Depending on the TV, the picture on the screen becomes black and white when you play a disc recorded in the NTSC color system.

Sound

There is no sound.

- The speaker cord is not connected securely.
- Check the speaker settings (pages 22, 77).
- The connecting cord is damaged. Replace it with a new one.
- Press MUTING on the remote if "MUTING ON" is displayed in the front panel display.
- The receiver is in pause mode or in Slow-motion Play mode. Press ▷ to return to normal play mode.
- Fast forward or fast reverse is performed. Press ▷ to return to normal play mode.
- Select "DEC. PRI." from AMP MENU and set "AUTO" when playing DTS-CD signals from external equipment using the DIGITAL IN (OPTICAL IN/COAXIAL IN) jack (page 52).

The left and right sounds are unbalanced or reversed.

- Check that the speakers and components are connected correctly and securely.
- Adjust the balance parameter in the BALANCE menu (page 79).

There is no sound from the subwoofer.

- Check the speaker connections and settings (pages 15, 77).
- Set the sound field to "AUTO FORMAT DIRECT AUTO" (page 47).

Severe hum or noise is heard.

- Check that the speakers and components are connected securely.
- Check that the connecting cords are away from a transformer or motor, and at least 3 metres (10 feet) away from your TV set or a fluorescent light.
- Move your TV away from the audio components.
- The plugs and jacks are dirty. Wipe them with a cloth slightly moistened with alcohol.
- Select "DEC. PRI." from AMP MENU and set "AUTO" when playing DTS-CD signals from external equipment using the DIGITAL IN (OPTICAL IN/COAXIAL IN) jack (page 52).
- Clean the disc.

When CD (PCM signal) playback starts, sound is not output initially.

- Select "DEC. PRI." from AMP MENU and set "PCM" (page 52).

continued

The sound loses stereo effect when you play a VIDEO CD, a CD, or an MP3.

- Set “AUDIO” to “STEREO” in the Control Menu display (page 45).
- Make sure the receiver is connected appropriately.

The surround effect is difficult to hear when you are playing a Dolby Digital or MPEG audio sound track.

- Make sure the sound field function is on (page 47).
- Check the speaker connections and settings (pages 15, 77).
- Depending on the DVD, the output signal may not be the entire 5.1 channel or 6.1channel. It may be monaural or stereo even if the sound track is recorded in Dolby Digital or MPEG audio format.

The sound comes from the center speaker only.

- Depending on the disc, the sound may come from the center speaker only.

No sound is heard from the center speaker.

- Check the speaker connections and settings.
- Make sure the sound field function is on (page 47).

No sound or only a very low-level sound is heard from the surround/surround back speakers.

- Check the speaker connections and settings.
- Make sure the surround speakers are set to either “SMALL” or “LARGE.”
- Make sure the sound field function is on (page 47).
- Select a sound field containing the word “C.ST.EX” (page 49).
- Depending on the source, the effect of the surround/surround back speakers may be less noticeable.

Operation

Radio stations cannot be tuned in.

- Check that the antennas are connected securely. Adjust the antennas or connect an external antenna if necessary.
- The signal strength of the stations is too weak (when tuning in with automatic tuning). Use manual tuning.
- No stations have been preset or the preset stations have been cleared (when tuning by scanning preset stations). Preset the stations (page 69).
- Press DISPLAY/JUMP so that the frequency appears in the display.

The remote does not function.

- The controllable source on the remote is another unit(s). Press FUNCTION and select “DVD,” “VIDEO1,” “VIDEO2,” “TV/SAT,” “MD/DAT,” or “TUNER” using Cursor key, and then push Cursor key (page 68).
- There are obstacles between the remote and the receiver.
- The distance between the remote and the receiver is too far.
- The remote is not pointed at the remote sensor on the receiver.
- The batteries in the remote are weak.

The disc does not play.

- There is no disc inserted.
- The disc is upside down.
  Insert the disc with the playback side facing down on the disc tray.
- The disc is skewed on the disc tray.
- The receiver cannot play CD-ROMs, etc. (page 8).
- The region code on the DVD does not match the receiver.
- Moisture has condensed inside the receiver. Remove the disc and leave the receiver turned on for about half an hour (page 3).

The MP3 audio track cannot be played.

- The DATA CD is not recorded in an MP3 format that conforms to ISO9660 Level 1/ Level 2 or Joliet.
- The MP3 audio track does not have the extension “.MP3.”
- The data is not formatted in MP3 even though it has the extension “.MP3.”
- The receiver can only play MP3 (MPEG1 Audio Layer3) audio.
- Remove the disc and select “CUSTOM SETUP” from the setup items. Then select “DATA CD PRIORITY” and set to “MP3” again. (page 77)
- There are more than 8 directory levels.

The title of the MP3 audio album or track is not correctly displayed.

- The receiver can only display alphabetical letters and numbers. Other characters are displayed as “ ”.

The JPEG image file cannot be played

- The DATA CD is not recorded in a JPEG format that conforms to ISO9660 Level1/Level 2 or Joliet.
- The JPEG image file does not have the extension “.JPG” or “.JPEG.”

- The data is not formatted in JPEG even though it has the extension ".JPG" or "JPEG."
- Image length or width is more than 4720 dots.
- Remove the disc and select "CUSTOM SETUP" from the setup items. Then select "DATA CD PRIORITY" and set to "JPEG" again. (page 77)
- There are more than 8 directory levels.
- You cannot play the Progressive JPEG files.

The title of a JPEG album or file is not correctly displayed.

- The receiver can only display alphabetical letters and numbers. Other characters are displayed as " ".

The display for entering the password does not appear for Super Audio CD, even though Custom Parental Control is set.

- Custom Parental Control is set for different layers of a Super Audio CD.

A disc does not start playing from the beginning.

- Program Play, Shuffle Play, or Repeat Play has been selected (pages 33, 35, 36).
  Press CLEAR to cancel these functions before playing a disc.
- Resume Play has been selected.
  During stop, press ■ on the receiver or the remote and then start playback (page 26).
- The title, DVD or PBC menu automatically appears on the TV screen.

The receiver starts playing the disc automatically.

- The DVD features an auto playback function.

Playback stops automatically.

- Some discs may contain an auto pause signal. While playing such a disc, the receiver stops playback at the auto pause signal.

The receiver turns off during DVD playback.

- If approximately one hour passes with DVD playback paused or with the DVD top menu or a DVD menu displayed during DVD playback, the receiver automatically turns off.

You cannot perform some functions such as Stop, Search, Slow-motion Play, Repeat Play, Shuffle Play, or Program Play.

- Depending on the disc, you may not be able to perform some of the operations above. See the operating manual that came with the disc.

Messages do not appear on the screen in the language you want.

- In the Setup Display, select the desired language for the on-screen display in "OSD" under "LANGUAGE SETUP" (page 74).

The language for the sound track cannot be changed.

- Multilingual tracks are not recorded on the DVD being played.
- The DVD prohibits changing the language for the sound track.

The subtitle language cannot be changed.

- Multilingual subtitles are not recorded on the DVD being played.
- The DVD prohibits changing the subtitles.

The subtitle cannot be turned off.

- The DVD prohibits turning off subtitles.

The angles cannot be changed.

- Multi-angles are not recorded on the DVD being played (page 54).
- The DVD prohibits changing the angles.

A disc cannot be ejected and "LOCKED" appears in the front panel display.

- Contact your Sony dealer or local authorized Sony service facility.

"PROTECT" appears in the front panel display.

- The speaker protection circuit is functioning. Check the speaker connections.

"REMOVE" is displayed in the front panel display.

- Remove the disc in front of you and turn off the receiver once, and then turn it on again.

"MECHA LOCK" is displayed in the front panel display.

- Turn the power off and then on again by pressing POWER on the receiver.

The receiver does not work normally.

- If the receiver's operation becomes effected, press POWER on the receiver to turn off the power, then turn on the power again.

Specifications

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION: With 8 ohm loads, both channels driven, from 20 – 20,000 Hz; rated 120 watts per channel minimum RMS power, with no more than 0.7 % total harmonic distortion from 250 milli watts to rated output.

Amplifier section

Stereo mode	120 W + 120 W (8/4 ohms, 20 – 20,000 Hz, THD 0.7 %)
Surround mode	Front: 120 W + 120 W Center*: 120 W Surround*: 120 W + 120 W Surround back*: 120 W (8/4 ohms, 20 – 20,000 Hz, THD 0.7 %)

* *Depending on the sound field settings and the source, there may be no sound output.*

Inputs (Analogue)	ANALOG IN: Sensitivity: 150 mV Impedance: 50 kilohms
Inputs (Digital)	DIGITAL IN OPTICAL: DIGITAL IN COAXIAL: Impedance: 75 ohms
Outputs (Analogue)	SUB WOOFER OUT: Voltage: 3 V Impedance: 100 ohms PHONES: Accepts low- and high-impedance headphones
Outputs (Digital)	DIGITAL OUT OPTICAL

Super Audio CD/DVD system

Laser	Semiconductor laser (Super Audio CD/DVD: λ = 650 nm) (CD: λ = 780 nm) Emission duration: continuous
Signal format system	NTSC

FM tuner section

System	PLL quartz-locked digital synthesizer system
Tuning range	87.5 – 108.0 MHz (100 kHz step)
Antenna	FM wire antenna
Antenna terminals	75 ohms, unbalanced
Intermediate frequency	10.7 MHz

AM tuner section

System	PLL quartz-locked digital synthesizer system
Tuning range	530 – 1710 kHz (with the interval set at 10 kHz) 531 – 1710 kHz (with the interval set at 9 kHz)
Antenna	Loop antenna
Intermediate frequency	450 kHz

Video section

Inputs	Video: 1 Vp-p 75 ohms S-video: Y: 1 Vp-p 75 ohms C: 0.286 Vp-p 75 ohms Component: Y: 1 Vp-p 75 ohms P_B/C_B: 0.7 Vp-p P_R/C_R: 0.7 Vp-p
Outputs	Video: 1 Vp-p 75 ohms S-video: Y: 1 Vp-p 75 ohms C: 0.286 Vp-p 75 ohms Component: Y: 1 Vp-p 75 ohms P_B/C_B: 0.7 Vp-p P_R/C_R: 0.7 Vp-p

General

Power requirements	120 V AC, 60 Hz
Power consumption	180 W 1 W (at the Power Saving Mode)
Dimensions (approx.)	430 × 136 × 448 mm (17 × 5 3/8 × 17 3/4 inches) (w/h/d) incl. projecting parts
Mass (approx.)	9.7 kg (21 lb 7 oz)
Operating temperature	5°C to 35°C (41°F to 95°F)
Operating humidity	5 % to 90 %
Supplied accessories	See page 13.

Design and specifications are subject to change without notice.

Glossary

Album

Section of a music piece or an image on a data CD containing MP3 audio tracks or JPEG files.

Chapter

Subdivision of a title on a DVD. A title is composed of several chapters.

Digital Cinema Sound (DCS)

This is the generic name of the surround sound produced by digital signal processing technology developed by Sony. Unlike previous surround sound fields mainly directed at the reproduction of music, Digital Cinema Sound is designed specifically for the enjoyment of movies.

Dolby Digital

This movie theatre sound format is more advanced than Dolby Surround Pro Logic. In this format, the surround speakers output stereo sound with an expanded frequency range, and a subwoofer channel for deep bass is independently provided. This format is also called “5.1,” with the subwoofer channel designated as the 0.1 channel (since it functions only when a deep bass effect is needed). All six channels in this format are recorded separately for superior channel separation. Furthermore, since all the signals are processed digitally, less signal degradation occurs.

Dolby Digital EX

An enhanced compatible format of Dolby Digital 5.1, developed by Dolby Laboratories and Lucasfilm THX, which adds an extra surround back channel, and can be used for 6.1(three surround speakers) channel playback, using matrix encoding.

Dolby Pro Logic II

Dolby Pro Logic II creates five full-bandwidth output channels from two-channel sources. This is done using an advanced, high-purity matrix surround decoder that extracts the spatial properties of the original recording without adding any new sounds or tonal colorations.

continued

■ Movie mode

The Movie mode is for use with stereo television shows and all programs encoded in Dolby Surround. The result is enhanced soundfield directionality that approaches the quality of discrete 5.1-channel sound.

■ Music mode

The Music mode is for use with any stereo music recordings, and provides a wide and deep sound space.

Dolby Surround Pro Logic

As one method of decoding Dolby Surround, Dolby Surround Pro Logic produces four channels from two-channel sound. Compared with the former Dolby Surround system, Dolby Surround Pro Logic reproduces left-to-right panning more naturally and localizes sounds more precisely. To take full advantage of Dolby Surround Pro Logic, you should have one pair of surround speakers and a center speaker. The surround speakers output monaural sound.

DTS

Digital audio compression technology developed by Digital Theater Systems, Inc. This technology conforms to 5.1-channel surround. This format comprises of stereo surround channels and a discrete subwoofer channel. DTS provides the same 5.1 discrete channels of high quality digital audio. The superior channel separation is realized due to all channel data being recorded discretely and processed digitally.

DTS-ES

An enhanced compatible format of 5.1 channel, which adds an extra surround back channel. There are two formats: Discrete 6.1, which processes the surround back signal independently, and Matrix 6.1, which processes it along with the Surround (L/R) channels.

DVD

A disc that contains up to 8 hours of moving pictures even though its diameter is the same as a CD.
The data capacity of a single-layer and single-sided DVD, at 4.7 GB (Giga Byte), is 7 times that of a CD. Furthermore, the data capacity of a dual-layer and single-sided DVD is 8.5 GB, a single-layer and double-sided DVD 9.4 GB, and a dual-layer and double-sided DVD 17 GB.
The picture data uses the MPEG 2 format, a worldwide standard of digital compression technology. The picture data is compressed to about 1/40 of its original size. DVD also uses variable rate coding technology that processes allocated data according to the status of the picture.
The audio data is recorded in Dolby Digital as well as in PCM, allowing you to enjoy more realistic audio presence.
Furthermore, various advanced functions such as the multi-angle, multilingual, and Parental Control functions are provided with the DVD.

File

Section of a picture on a data CD containing JPEG image files.

Film based software, Video based software

DVDs can be classified as Film based or Video based software. Film based DVDs contain the same images (24 frames per second) that are shown at movie theatres. Video based DVDs, such as television dramas or sit-coms, displays images at 30 frames (or 60 fields) per second.

Interlace format (Interlaced scanning)

The Interlace format is the NTSC standard method for displaying TV images at 30 frames per second. Each frame is scanned twice - alternately between the even numbered scanning lines and then odd numbered scanning lines, at 60 times per second.

Multi-angle function

Various angles of a scene, or viewpoints of the video camera are recorded on some DVDs.

Multilingual function

Several languages for the sound or subtitles in a picture are recorded on some DVDs.

Neo:6

Developed by Digital Theater Systems, Inc., applies a conventional 2-channel or Dolby Digital source signal to a high-precision, digital matrix decoder to achieve 6.1 channel surround playback.
CINEMA mode allows for more separation of

channels to enhance the 6.1 channel effect, and is best suited for movies.
MUSIC mode allows the front L and R channels to go unprocessed for optimum stereo, with the addition of the surround components adding a special quality to the sound.

Parental Control

A function of the DVD to limit playback of the disc by the age of the viewer according to the limitation level in each country. The limitation varies from disc to disc; when it is activated, playback is completely prohibited, violent scenes are skipped or replaced with other scenes and so on.

Playback Control (PBC)

Signals encoded on VIDEO CDs (Version 2.0) to control playback.
By using menu screens recorded on VIDEO CDs with PBC functions, you can enjoy playing simple interactive programs, programs with search functions, and so on.

Progressive format (sequential scanning)

In contrast to the Interlace format, the progressive format can reproduce 60 frames per second by reproducing all scanning lines (525 lines for the NTSC system). The overall picture quality increases and still images, text and horizontal lines appear sharper. This format is compatible with the 525 progressive format.

Region Code

This receiver is used to protect copyrights. A region number is allocated on each DVD system or DVD disc according to the sales region. Each region code is shown on the receiver as well as on the disc packaging. The receiver can play the discs that match its region code. The receiver can also play discs with the "🌐" mark. Even when the region code is not shown on the DVD, the region limit may still be activated.

Scene

On a VIDEO CD with PBC (playback control) functions, the menu screens, moving pictures and still pictures are divided into sections called "scenes."

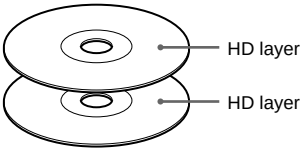
Super Audio CD

A Super Audio CD disc can reproduce sounds that are extremely faithful to the original sound by use of DSD (Direct Stream Digital) technology. This technology utilizes a sampling frequency of 2.8224 MHz, which is 64 times that of a conventional CD, and 1-bit quantization that enables the disc to hold 4 times the amount of information that a standard PCM format CD can hold. Super Audio CDs are divided into the following types.

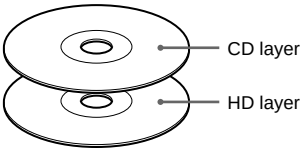
- Super Audio CD (single layer disc)
  This disc consists of a single HD layer*.

* High density signal layer for the Super Audio CD

- Super Audio CD (dual layer disc)
  This disc consists of dual HD layers and is capable of extended play over long periods. Also, as the dual layer disc consists of dual HD layers on one side only, you do not have to turn the disc over during playback.

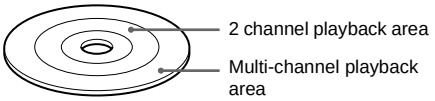


- Super Audio CD + CD (Hybrid disc)
  This disc consists of an HD layer and a CD layer. Also, as the dual layers are on one side only, you do not have to turn the disc over during playback. You can play this CD layer using a conventional CD player.



continued

• 2 channel + Multi-channel Super Audio CD
This disc consists of a 2 channel playback area and a multi-channel playback area.



Title

The longest section of a picture or music feature on a DVD, movie, etc., in video software, or the entire album in audio software.

Track

Section of a picture or a music piece on a Super Audio CD, CD, VIDEO CD or MP3. An album is composed of several tracks (MP3 only).

VIDEO CD

A compact disc that contains moving pictures. The picture data uses the MPEG 1 format, a worldwide standard of digital compression technology. The picture data is compressed to about 1/140 of its original size. Consequently, a 12 cm VIDEO CD can contain up to 74 minutes of moving pictures.
VIDEO CDs also contain compact audio data. Sounds outside the range of human hearing are compressed while sounds we can hear are not compressed. VIDEO CDs can hold 6 times the audio information of conventional audio CDs.
There are 2 versions of VIDEO CDs.

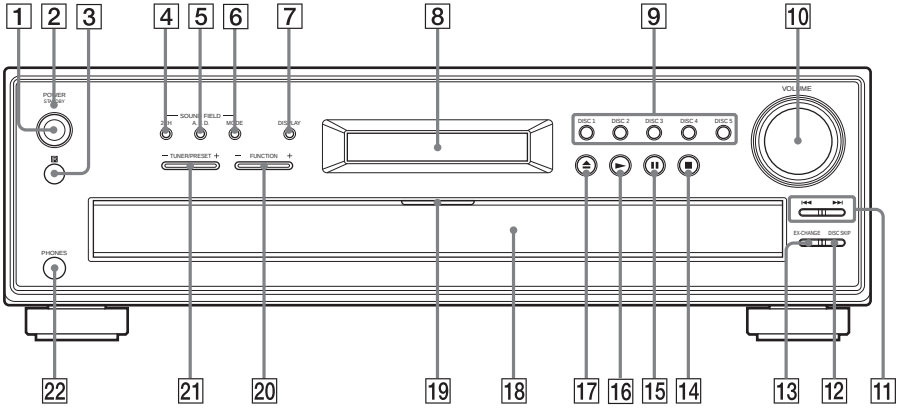
- Version 1.1: You can play only moving pictures and sounds.
- Version 2.0: You can play high-resolution still pictures and enjoy PBC functions.

This receiver conforms to both versions.

Index to Parts and Controls

For more information, refer to the pages indicated in parentheses.

Front Panel

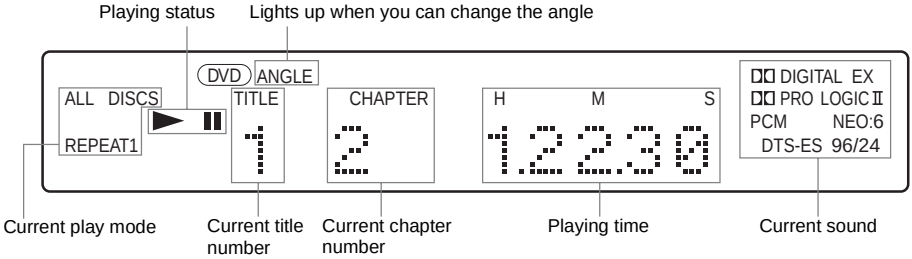


1 **Power switch (23)**
2 **STANDBY indicator (23)**
3 **R (remote sensor) (13)**
4 **2CH (47)**
5 **A.F.D. (47)**
6 **MODE (49)**
7 **DISPLAY (40, 70)**
8 **Front Panel Display (90)**
9 **DISC1-DISC5 (23)**
10 **VOLUME control (23)**
11 **I◄◄/►►I (24)**
12 **DISC SKIP (23, 25)**
13 **EX-CHANGE (23, 25)**
14 **■ (stop) (23)**
15 **II (pause) (24)**
16 **► (play) (23)**
17 **⏏ (open/close) (23)**
18 **Disc Tray (23)**
19 **MULTI CHANNEL DECODING indicator (72)**
20 **FUNCTION –/+ (68)**
21 **TUNER/PRESET –/+ (69)**
22 **PHONES jack (23)**

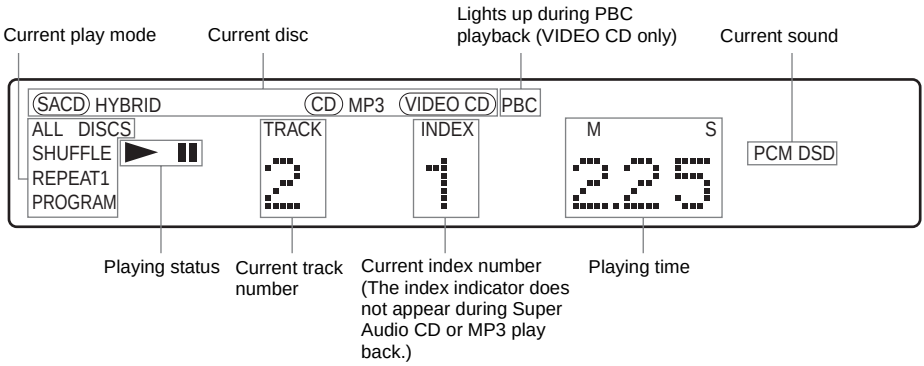
continued

Front Panel Display

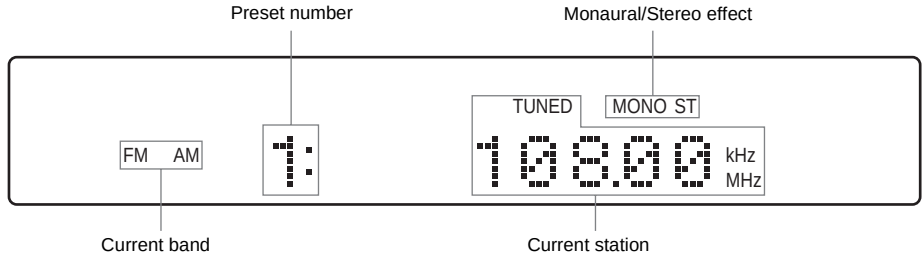
When playing back a DVD



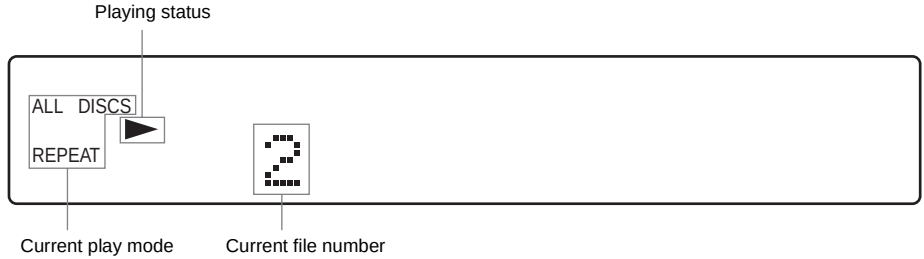
When playing back a Super Audio CD, CD, VIDEO CD, or MP3



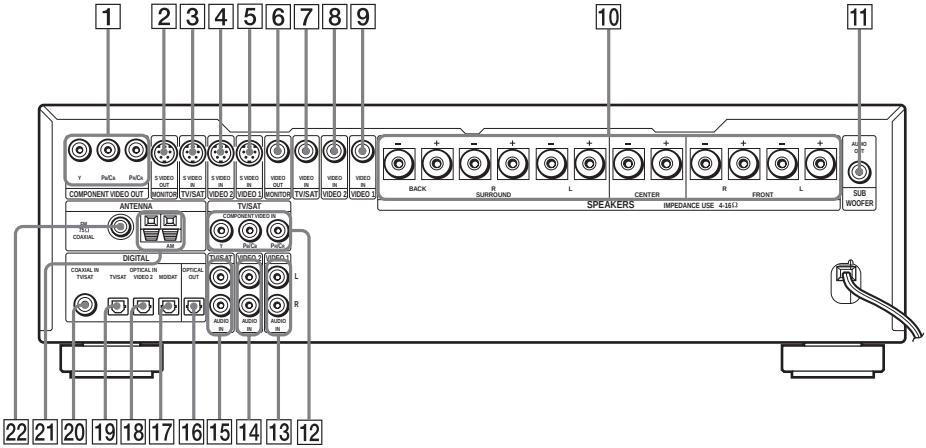
When listening to the radio



When playing back a JPEG file



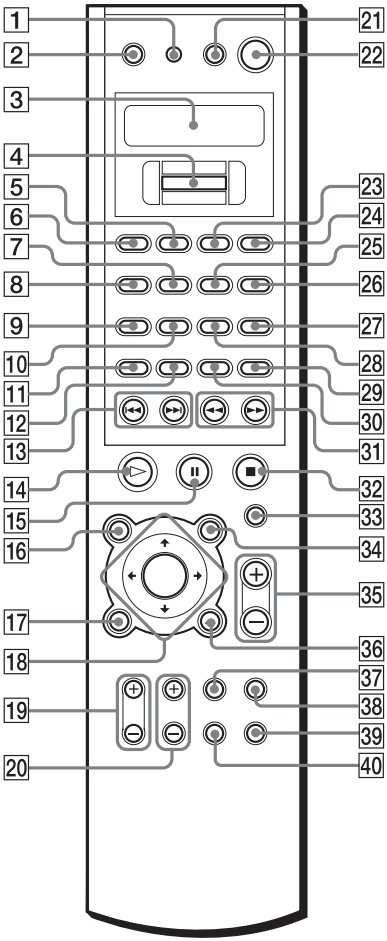
Rear Panel



1 **COMPONENT VIDEO OUT jacks (19)**
2 **MONITOR (S VIDEO OUT) jack (19)**
3 **TV/SAT (S VIDEO IN) jack (19)**
4 **VIDEO2 (S VIDEO IN) jack (19)**
5 **VIDEO1 (S VIDEO IN) jack (19)**
6 **MONITOR (VIDEO OUT) jack (19)**
7 **TV/SAT (VIDEO IN) jack (19)**
8 **VIDEO2 (VIDEO IN) jack (19)**
9 **VIDEO1 (VIDEO IN) jack (19)**
10 **SPEAKER terminals (14)**
11 **SUB WOOFER (ANALOG OUT) jack (14)**
12 **COMPONENT VIDEO IN (TV/SAT) jacks (19)**
13 **VIDEO1 (AUDIO L/R IN) jack (19)**
14 **VIDEO2 (AUDIO L/R IN) jack (19)**
15 **TV/SAT (AUDIO L/R IN) jack (19)**
16 **DIGITAL (OPTICAL OUT) jack (19)**
17 **DIGITAL (OPTICAL IN MD/DAT) jack (19)**
18 **DIGITAL (OPTICAL IN VIDEO2) jack (19)**
19 **DIGITAL (OPTICAL IN TV/SAT) jack (19)**
20 **DIGITAL (COAXIAL IN TV/SAT) jack (19)**
21 **AM terminals (17)**
22 **FM 75Ω COAXIAL jack (17)**

continued

Remote



Notes

- This remote control glows in the dark. However, before glowing, the remote must be exposed to light for a while.
- When you operate a DVD player, press FUNCTION 6 and select "DVD" using Cursor key 4, and then change the mode of the receiver to DVD.

1 **RM SET UP (63, 65, 66, 67)**

2 **TV I/⏻ (on/standby) (64, 65)**

3 **Display (62)**

4 **Cursor key (23, 24, 27, 33, 38, 54, 57, 59, 63, 64, 65, 66, 67, 68, 69, 70, 73)**

5 **DISC (23, 24)**

6 **FUNCTION (66, 67, 68, 69, 70)**

7 **AUDIO (45)**

8 **PLAY MODE (33, 35)**

9 **REPEAT (33, 36)**

10 **ANGLE (54)**

11 **DISPLAY/JUMP (40, 70)**

12 **SUBTITLE (55)**

13 **I◀◀ /▶▶I, CH –/+, PRESET –/+ (24, 27, 67, 69, 70, 71)**

14 **▷ (play) (23, 24, 26, 27, 32, 33, 35, 37, 59)**

15 **II (pause) (24)**

16 **TOP MENU/GUIDE ALBUM– (27, 29, 30, 66)**

17 **DVD DISPLAY (29, 30, 35, 38, 43, 44, 45, 54, 55, 56, 57)**

18 **←/↑/↓/→ ENTER (27, 29, 30, 32, 33, 35, 38, 45, 48, 51, 52, 53, 54, 55, 56, 57, 59, 69, 72, 73)**

19 **TV VOL +/– (65)**

20 **TV CH +/– (65)**

21 **AV I/⏻ (on/standby) (65, 66, 67)**

22 **I/⏻ (on/standby) (23, 69)**

23 **NUM (27, 33, 38, 54, 57, 59, 73)**

24 **2CH (47)**

25 **BAND (69, 70)**

26 **A.F.D. (47, 48)**

27 **MODE (49)**

28 **STEREO/MONO (70)**

29 **CLEAR (33, 35, 36, 38)**

30 **ENTER**

31 **◀◀/▶▶, SLOW ◄I/I►, TUNIING –/+ (31, 37, 69, 70)**

32 **■ (stop) (23, 24, 26, 27, 57)**

33 **OPEN/CLOSE (23)**

34 **AV MENU ALBUM+ (27, 29, 30, 66)**

35 **VOLUME +/– (24, 70)**

36 **↶ RETURN/EXIT (27, 29, 30, 33, 38, 59, 73)**

37 **TV/VIDEO (65)**

38 **MUTING (24)**

39 **AMP MENU (48, 51,52, 53, 69, 71, 72)**

40 **DVD SETUP (59, 73)**

Language Code List

The language spellings conform to the ISO 639: 1988 (E/F) standard.

Code	Language	Code	Language	Code	Language
1027	Afar	1245	Inupiak	1489	Russian
1028	Abkhazian	1248	Indonesian	1491	Kinyarwanda
1032	Afrikaans	1253	Icelandic	1495	Sanskrit
1039	Amharic	1254	Italian	1498	Sindhi
1044	Arabic	1257	Hebrew	1501	Sangho
1045	Assamese	1261	Japanese	1502	Serbo-Croatian
1051	Aymara	1269	Yiddish	1503	Singhalese
1052	Azerbaijani	1283	Javanese	1505	Slovak
1053	Bashkir	1287	Georgian	1506	Slovenian
1057	Byelorussian	1297	Kazakh	1507	Samoan
1059	Bulgarian	1298	Greenlandic	1508	Shona
1060	Bihari	1299	Cambodian	1509	Somali
1061	Bislama	1300	Kannada	1511	Albanian
1066	Bengali; Bangla	1301	Korean	1512	Serbian
1067	Tibetan	1305	Kashmiri	1513	Siswati
1070	Breton	1307	Kurdish	1514	Sesotho
1079	Catalan	1311	Kirghiz	1515	Sundanese
1093	Corsican	1313	Latin	1516	Swedish
1097	Czech	1326	Lingala	1517	Swahili
1103	Welsh	1327	Laothian	1521	Tamil
1105	Danish	1332	Lithuanian	1525	Telugu
1109	German	1334	Latvian; Lettish	1527	Tajik
1130	Bhutani	1345	Malagasy	1528	Thai
1142	Greek	1347	Maori	1529	Tigrinya
1144	English	1349	Macedonian	1531	Turkmen
1145	Esperanto	1350	Malayalam	1532	Tagalog
1149	Spanish	1352	Mongolian	1534	Setswana
1150	Estonian	1353	Moldavian	1535	Tonga
1151	Basque	1356	Marathi	1538	Turkish
1157	Persian	1357	Malay	1539	Tsonga
1165	Finnish	1358	Maltese	1540	Tatar
1166	Fiji	1363	Burmese	1543	Twi
1171	Faroese	1365	Nauru	1557	Ukrainian
1174	French	1369	Nepali	1564	Urdu
1181	Frisian	1376	Dutch	1572	Uzbek
1183	Irish	1379	Norwegian	1581	Vietnamese
1186	Scots Gaelic	1393	Occitan	1587	Volapük
1194	Galician	1403	(Afan) Oromo	1613	Wolof
1196	Guarani	1408	Oriya	1632	Xhosa
1203	Gujarati	1417	Punjabi	1665	Yoruba
1209	Hausa	1428	Polish	1684	Chinese
1217	Hindi	1435	Pashto; Pushto	1697	Zulu
1226	Croatian	1436	Portuguese		
1229	Hungarian	1463	Quechua	1703	Not specified
1233	Armenian	1481	Rhaeto-Romance		
1235	Interlingua	1482	Kirundi		
1239	Interlingue	1483	Romanian		

DVD Setup Menu List

You can set the following items with the DVD Setup menu.
The default setting are underlined.

LANGUAGE SETUP

- OSD — (Selects the language you want to use from the displayed language list.)
- DVD MENU[a] — (Selects the language you want to use from the displayed language list.)
- AUDIO[a] — (Selects the language you want to use from the displayed language list.)
- SUBTITLE[a] — (Selects the language you want to use from the displayed language list.)

SCREEN SETUP

- TV TYPE[a]
  - 4:3 LETTER BOX
  - 4:3 PAN SCAN
  - 16:9
- SCREEN SAVER
  - ON
  - OFF
- BACKGROUND
  - JACKET
  - PICTURE
  - GRAPHICS
  - BLUE
  - BLACK
- COMPONENT OUT
  - INTERLACE
  - PROGRESSIVE

CUSTOM SETUP

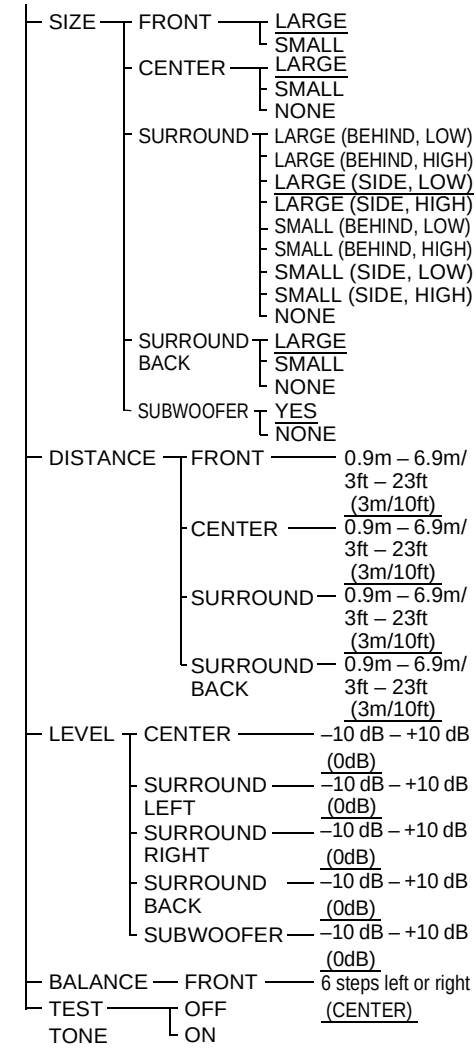
- PARENTAL CONTROL[a]
  - LEVEL
    - OFF
    - 8.
    - 7. NC17
    - 6. R
    - 5.
    - 4. PG13
    - 3. PG
    - 2.
    - 1. G
  - STANDARD
    - USA
    - OTHERS→
  - CHANGE PASSWORD
- TRACK SELECTION[a]
  - OFF
  - AUTO
- AUDIO DRC[b]
  - OFF
  - STANDARD
  - MAX
- DATA CD PRIORITY[c]
  - MP3
  - JPEG
- JPEG DATE
  - MM/DD/YYYY
  - YYYY/MM/DD
  - DD/MM/YYYY
  - YYYY/DD/MM

a) DVD only

b) Dolby Digital sources only

c) MP3, JPEG only

SPEAKER SETUP



RESET

- YES
- NO

Index

Numerics

16:9 75
4:3 LETTER BOX 75
4:3 PAN SCAN 75

A

ALBUM 29, 38
Album 7, 85
ANGLE 54
Antenna Hookups 17
AUDIO 45, 74
AUDIO DRC 77

B

BACKGROUND 75
BALANCE 79
Batteries 13

C

CHAPTER 39
Chapter 7, 85
COMPONENT OUT 76
Control Menu 11
CUSTOM PARENTAL CONTROL 57
CUSTOM SETUP 76

D

DATA CD PRIORITY 77
Decode Priority 52
Digital Cinema Sound 85
DIMMER 72
DISPLAY 40
DISTANCE 79
Dolby Digital 85
Dolby Digital EX 85
Dolby Surround Pro Logic 86
DTS 86
DTS-ES 86
DVD 86
DVD MENU 27, 74

F

Fast forward 37
Fast reverse 37
File 7, 86
Front Panel 89
Front panel display 90

H

Handling discs 9

I

INDEX 39
Index 7

J

JPEG 30
JPEG DATE 77

L

LANGUAGE SETUP 74
Learn Function 64
LEVEL 79
Listening to the Radio 70

M

Macro Function 63
MP3 28
Multi-angle function 54, 86
Multilingual function 45, 86
MUTING 24

N

Neo:6 86

O

On-screen display
Control Menu display 11
OSD 74

P

PARENTAL CONTROL 59, 76, 87
PBC Playback 27, 87
PICTURE MODE 56
PLAY MODE 33, 35
Power Saving 24
Program Play 33

R

Radio 70
Rear Panel 91
Region Code 8, 87
Remote 65, 92
REPEAT 36
RESET 74
Resume Play 26

S

S VIDEO 19
Scan 37
SCENE 11
Scene 7, 87
SCREEN SAVER 75
SCREEN SETUP 75
Setup Display 73
SHUFFLE 35
Shuffle Play 35
SIZE 77
Slide Show 31
Slow-motion 37
Sound Field 47
Speaker Impedance 53
SPEAKER SETUP 77
Speaker System Hookup 14
STEREO/MONO 70
SUBTITLE 74
Super Audio CD 87
Surround Back Decoding Mode 51

T

TEST TONE 79
TIME SEARCH 38
TITLE 38
Title 7, 88
TRACK 38
Track 7, 88
TRACK SELECTION 76
Troubleshooting 81
TV and Video Component Hookups 19
TV TYPE 75

U

Usable discs 7

V

VIDEO CD 88

FR

AVERTISSEMENT

Attention – L'utilisation d'instruments optiques avec ce produit augmente le risque de lésion oculaire.

Pour les clients canadiens

ATTENTION

CAUTION

TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

ATTENTION

POUR EVTER LES CHOCS ELECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

ENERGY STAR® est une marque déposée aux Etats-Unis.
En tant que partenaire d'ENERGY STAR®, Sony atteste que son produit répond aux recommandations d'ENERGY STAR® en matière d'économie d'énergie.

Précautions

Sécurité

- Si un objet ou du liquide venait à pénétrer à l'intérieur du boîtier, débranchez l'appareil et faites-le vérifier par un personnel qualifié avant de le remettre en marche.
- L'appareil n'est pas déconnecté du secteur tant qu'il reste branché sur la prise secteur, même s'il a été mis, proprement dit, hors tension.
- Débranchez l'appareil de la prise murale si vous prévoyez de ne pas l'utiliser pendant une longue période. Pour débrancher le cordon, tirez sur la fiche, ne tirez jamais sur le cordon lui-même.

Installation

- N'installez pas l'appareil dans un espace confiné comme dans une bibliothèque ou un meuble encastré.
- Prévoyez une circulation d'air suffisante de manière à éviter toute surchauffe interne.
- Ne placez pas l'appareil sur une surface moelleuse (comme un tapis, une couverture, etc.) ou près de tissus (comme un rideau ou une tenture) risquant de bloquer les fentes d'aération.
- N'installez pas l'appareil à proximité de sources de chaleur telles que des radiateurs ou des conduites d'air chaud, ni à des endroits exposés à la lumière directe du soleil, à une poussière excessive, à des vibrations mécaniques ou à des chocs.
- N'installez pas l'appareil en position inclinée. L'appareil est conçu pour fonctionner uniquement à l'horizontale.
- Gardez l'appareil et les disques à l'écart de tout équipement contenant des aimants magnétiques puissants, par exemple des fours à micro-ondes ou de puissants haut-parleurs.
- Ne posez pas d'objets lourds sur l'appareil.
- Si vous transportez l'appareil directement d'une pièce froide dans une pièce chaude, de l'humidité peut apparaître par condensation à l'intérieur de l'appareil et endommager les lentilles.
  La première fois que vous installez l'appareil ou lorsque vous le déplacez d'un endroit frais vers un endroit chaud, attendez environ une heure avant de le faire fonctionner.

Félicitations !

Nous vous remercions d'avoir fait l'acquisition de cet ampli-tuner Super Audio CD/DVD de Sony. Avant de le faire fonctionner, lisez attentivement ce mode d'emploi et conservez-le pour toute référence ultérieure.

Précautions

Sécurité

Si un objet ou du liquide venait à pénétrer à l'intérieur du boîtier, débranchez l'ampli-tuner et faites-le vérifier par un personnel qualifié avant de le remettre en marche.

Installation

- Installez l'ampli-tuner dans un endroit suffisamment ventilé pour éviter toute surchauffe interne.
- En cas de volume élevé sur de longues périodes, le boîtier devient chaud au toucher. Il ne s'agit pas d'un dysfonctionnement. Cependant, il est conseillé de ne pas le toucher. N'installez pas l'appareil dans un espace confiné où la ventilation est faible car il y a un risque de surchauffe.
- Ne bouchez pas les orifices de ventilation en posant quelque chose sur l'ampli-tuner. Le système est équipé d'un amplificateur haute puissance. Si les orifices de ventilation de la partie supérieure sont bouchés, l'ampli-tuner peut surchauffer et mal fonctionner.
- N'installez pas l'ampli-tuner sur une surface molle, telle qu'un tapis, qui risquerait de boucher les orifices de ventilation situés sous l'ampli-tuner.
- N'installez pas votre ampli-tuner à proximité de sources de chaleur ou dans un endroit soumis aux rayons du soleil, à une poussière excessive ou à des chocs mécaniques.

Fonctionnement

- Si l'ampli-tuner est transporté directement d'un endroit froid à un endroit chaud ou s'il est installé dans une pièce très humide, de la condensation risque de se former sur l'optique située à l'intérieur de l'ampli-tuner. Si cela se produit, votre ampli-tuner risque de ne pas fonctionner correctement. Dans ce cas, retirez le disque et laissez l'ampli-tuner sous tension pendant environ 30 minutes jusqu'à ce que l'humidité se soit complètement évaporée.
- Avant de déplacer votre ampli-tuner, retirez tous les disques. Sinon,vous risquez de les endommager.
- Par souci d'économie d'énergie, le système peut être mis complètement hors tension à l'aide de l'interrupteur POWER de l'appareil principal. Bien que le voyant reste allumé pendant quelques temps, le système est complètement hors tension.

Réglage du volume

N'augmentez pas le volume lorsque vous écoutez un passage avec de très faibles niveaux d'entrée ou sans signal audio. Vous risqueriez d'endommager les enceintes au moment du passage caractérisé par un niveau sonore de crête.

Entretien

Nettoyez le boîtier, le panneau et les commandes avec un chiffon doux légèrement imprégné d'une solution détergente neutre. N'utilisez pas de tampons abrasifs, de poudre à récurer ou de solvant tel que l'alcool ou la benzine.

Pour toute question ou tout problème concernant votre ampli-tuner, n'hésitez pas à consulter votre revendeur Sony le plus proche.

Entretien des disques

N'utilisez pas les disques de nettoyage CD/DVD disponibles dans le commerce. Ils risquent d'endommager votre ampli-tuner.

Couleurs de votre écran de téléviseur

Si les enceintes entraînent des irrégularités de couleur sur votre écran de téléviseur, mettez ce dernier hors tension, puis remettez-le sous tension 15 à 30 minutes après. Si les irrégularités de couleurs persistent, éloignez les enceintes du téléviseur.

L'étiquette est située à l'arrière de l'appareil.

IMPORTANT
Attention : Cette ampli-tuner est capable de maintenir indéfiniment l'affichage d'une image vidéo fixe ou d'un menu sur l'écran de votre téléviseur. En laissant une image vidéo fixe ou un menu affiché sur votre téléviseur pendant une période prolongée, vous risquez de provoquer des dommages irréversibles au niveau de votre écran. Les téléviseurs de projection sont particulièrement sensibles à ce phénomène.

suite

Transport de l’ampli-tuner

Lorsque vous transportez l’ampli-tuner, appliquez la procédure ci-dessous afin de protéger le mécanisme interne.

Retirez tous les disques. « NO DISC » apparaît dans la fenêtre d’affichage du panneau frontal. Maintenez les touches ■ et DISC 4 de l’ampli-tuner enfoncées pendant 5 secondes environ. Dès que « MECHA LOCK » apparaît dans la fenêtre d’affichage du panneau frontal, mettez l’ampli-tuner hors tension et débranchez son cordon d’alimentation de la prise secteur.